



Life Sciences

2025–2026 Product Catalog

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education
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Helpful Icons



New product



Meets Americans with Disabilities Act requirements



Protects against splashes from hazardous chemicals or potentially infectious materials



Applicable for remote learning



Defined as a medical device by the FDA

Guarantee

If you're not 100% satisfied with your purchase, contact our customer service team within 30 days of your invoice date and we'll either exchange, repair, or replace the product, or give you a credit for the full purchase price. Call us toll-free for a return authorization number.

Special order items, furniture, and closeouts cannot be exchanged or credited.

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4500 Turnberry Drive
Hanover Park, IL 60133

For international orders, see page 110.

Products featured in this catalog may have limited availability and extended lead times. Prices are subject to change.

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Life Sciences

Preparing today's students to be the innovators of tomorrow isn't always easy, but finding the right teaching tools can be. From basic lab supplies to state-of-the-art classroom technology, the Fisher Science Education team has everything you need to create a 21st century STEM learning environment.

Visit fisheredu.com to get started.

Want to Customize Aspects of Your Curriculum?

Explore custom kits to meet the unique demands of your classroom.
Visit fisheredu.com/customkitting to learn more.

Concerned About Shipping and Handling Fees?

We offer \$12 flat-rate shipping on most orders and our hazardous material fee is just \$15—the lowest in the country.

Looking for Something Else?

Check out our other catalogs:

- Allied health
- Lab furniture and equipment
- Lab supplies and consumables
- Physical sciences
- Safety
- STEM



Different leaves have different vein patterns. Pinnate patterns occur when veins extend from the main middle vein to the edges, like oak leaves, and palmate patterns occur when veins radiate in a fan shape, like maple leaves.

Visit fisheredu.com/headlinediscoveries for more articles and information for your classroom.

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Liquid handling products



Storage solutions



Thermo Scientific Nalgene Reusable Plastic Labware

Thermo Scientific™ Nalgene™ plastic labware is lighter than glass and doesn't shatter, so it's safer and easier to use. Since it's more affordable than glass and durable enough to last for years, you can do even more with your budget.



Thermo Scientific Water Analysis Solutions

Explore accurate and precise water quality monitoring products that provide reliable results for lab, field, and industrial processes. Shop portable meters, electrodes and solutions, spectrophotometry products, and more.

NEW Featured Products



Hands-On Ecology Adventure

Investigate the owl food chain with these realistic synthetic pellets. Each pellet contains a full skeleton and prey remains, perfect for dissection.



Description	Cat. No.
Eisco™ Simulated Owl Pellet, Vole Remains	S80046
Eisco Simulated Owl Pellet, Bird Remains	S80047
Eisco Simulated Owl Pellet, Mouse Remains	S80048

Explore Hidden Worlds

Get an up-close look at the tiniest parts of the animal kingdom, including protozoa, sponges, hydra, and a variety of vertebrates.



Description	Cat. No.
Johannes Lieder Invertebrata Microscope Slide, Elementary Set	S139707
Johannes Lieder Histology of Vertebrata Microscope Slide Set	S139709



Examine Epidermal Elements

Teach how the body's largest organ works with a 3D reference model of human skin that includes a detailed view of a sweat gland, fatty tissue, and hair follicles.



Description	Cat. No.
United Scientific™ Skin Model	S139454



Breakdown Bacteria Basics

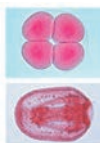
This glass slide set gets learners up close and personal with 12 bacteria, including streptococcus, *E. coli*, and more.



Description	Cat. No.
Supertek™ Bacteria Glass Slide Set	S00670

Sea Urchin Embryology

Discover the development of sea urchins from the unfertilized egg to the larval stage.



Description	Cat. No.
Johannes Lieder The Sea Urchin Embryology (<i>Echinus miliaris</i>)	S02815



Construct Detailed Models

Each EDVOTEK Origami Organelles model includes a classroom presentation and instructions. Just add paper, scissors, and tape.



Description	Cat. No.
EDVOTEK™ Origami Organelles CRISPR Model	S05734
EDVOTEK Origami Organelles Plant Life Cycle Model	S05716
EDVOTEK Origami Organelles Simple Animal Cell Model	S05720
EDVOTEK Origami Organelles Simple Plant Cell Model	S05721



Dive into DNA and Cell Signaling

Empower students to make 3D origami models and bring learning to life.



Description	Cat. No.
EDVOTEK Origami Organelles Biology Bundle	S05724
EDVOTEK Origami Organelles DNA Replication Model	S05726
EDVOTEK Origami Organelles Lac Operon Model	S05728
EDVOTEK Origami Organelles Transcription Model	S05729
EDVOTEK Origami Organelles Cell Signaling Model	S05739
EDVOTEK Origami Organelles Synapses Model	S05740



Inspect the Intricacies of Nature

Encourage students to discover the intricacies of insects, flowers, the human body, and more.



Description	Cat. No.
Supertek™ Microslide™ Your Life and Breath	S00479
Supertek Microslide Cleavage	S00483
Supertek Microslide The Leaf of a Flowering Plant	S00486
Supertek Microslide Fossils and Evolution	S00492
Supertek Insects Glass Slide Set	S00666
Supertek Elementary Glass Slide Set	S00673
Supertek Tiny Creatures Glass Slide Set	S00675
Supertek Life-Sized Human Skull Model	S01255

Need Help Choosing Supplies?

Use this curated list of products to restock your biology classroom, and visit **fisheredu.com** to find even more science education products.



Description	Quantity	Cat. No.
Dissection Supplies		
Formalin Preserved Sheep Brain, Dura Mater Removed	Each	S28069
Formalin Preserved Sheep Heart, Plain	Each	S28067
Fetal Pig Dissection 3D Model Making Kit	Each	S436047
United Scientific Supplies Large Dissecting Tray with Wax	Each	S80769
Dissection Pan	Each	S81136
Classroom Dissection Set	Each	S07040
General Biology Dissecting Kit	Each	S06841
Glass and Plasticware		
Class A Volumetric Flasks, 500 mL	6/Pack	S00132
Eisco™ Microscope Glass Slide, Plain	50/Pack	S13943
United Scientific™ Culture Tubes with Screw-Cap Finish	500/Case	S89594
Fisherbrand™ Disposable Cover Slips	1,000/Pack	S17525C
Fisherbrand Disposable Cover Slips	100/Pack	S17525B
United Scientific Plastic Graduated Cylinders, 10, 25, 50, 100, 250, 500, 1,000 mL	Each	S01973
Eisco Class B Acrylic Burette, 50 mL	Each	S95180A
Fisher Science Education™ Polypropylene Beaker Set, 50, 100, 250, 500, 1,000 mL	1/Pack	S400563B
Liquid Handling		
Variable Micropipets, 0.5 to 10 µL	Each	S90243B
Fisherbrand Disposable Graduated Transfer Pipettes, 5.8 mL	500/Pack	S05014
PPE		
Purple Nitrile™ Gloves, Medium	100/Pack	S78944
United Scientific Lab Coat, Men's Large	Each	S04778
Fisher Scientific PVC Apron, Medium	Each	S47382A
Fisherbrand 200 Series Safety Glasses	12/Pack	S01822
Cleaning Supplies		
Eisco Goggle Sanitizing Cabinet	Each	S07817
Eisco Lens Cleaning Tissue Paper	25/Pack	S24530
Fisherbrand™ Sparkleen™ 1 Detergent	3.25 lb.	S701101
Pipet/Buret Washer	Each	S31880



CAROLINA[®]

Living Material

The Fisher Science Education team is proud to offer Carolina[™] Biological Supply Company's living specimens. This partnership provides you with:

Extensive Variety | Expert Support | Superior Quality

Ordering Information

To order live specimens, please call customer service at **1-800-955-1177**.

When you place your order, be prepared to provide a specified delivery date and contact information for the faculty member using the product.

Living organisms are shipped Monday through Wednesday using two-day shipping.

Shipping on Monday for Tuesday delivery is possible but will require expedited, overnight shipping.

Your living materials are guaranteed to arrive on time and in a healthy condition or we will replace them with 100% satisfaction guaranteed.

Releasing Organisms

Living organisms are offered for educational purposes only. We do not advocate the release of any organism into the environment. In some states, it is illegal to release organisms, even indigenous species, without a permit.

Restrictions

- **State Shipping Restrictions:** Some living specimens are restricted in certain states. Please see the individual product listing for this information. Some items have substitution recommendations and/or replacement items that can be provided. This will be determined upon receipt of an order.
- **Seasonal Restrictions:** Some living specimens are seasonal and are only available at certain times during the year. Please see the individual product listings for seasonal availability.
- **Hawaii Restriction Notice:** Shipment of living materials (bacteria, algae, plants, protozoa, insects, and other animals) into Hawaii is restricted.

Prepaid Coupons

You can order living organisms in advance using a prepaid coupon option that allows you to arrange delivery when you are ready.

Pay one flat price that includes the cost of the organism and the shipping fees.

Coupons will not expire and can be redeemed at any time.

Redeem coupons by phone, fax, online, or mail.

To ensure prompt arrival of materials, redeem coupons at least two weeks prior to your requested delivery date.

LIVING ORGANISMS

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Living Organisms

Bacteria

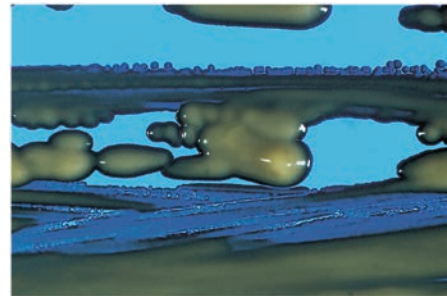
Individual Bacterial
Cultures

Bacteria cultures have wide applications in the food and chemical industries because of their highly diverse metabolic activities.

Bacteria are involved in many of the events that make life possible for other organisms, including humans. Fossils of prokaryotes similar to today's bacteria have been found in 3.5 billion-year-old rocks. A mastery of bacteria is the key to understanding life on earth in the past, present, and future.

- Labeled by genus and species name, and media on which they are cultured
- All Gram staining based on 24 hr. cultures
- Pure and high-quality
- For every level of study
- Easy-to-use media

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.



Cat. No.	Scientific Name	Media Type	Quantity	Unit of Measure
S07423ND	<i>Alcaligenes faecalis</i>	Nutrient Agar	1	Each
S07183ND	<i>Bacillus megaterium</i> Culture	Nutrient Agar	1	Each
S07424ND	<i>Bacillus subtilis</i> MicroKwik Culture™	Nutrient Agar	1	Each
S07184ND	<i>Bacillus subtilis</i> Culture	Nutrient Agar	1	Each
S07189ND	<i>E.coli</i> Culture	Nutrient Agar	1	Each
S07417ND	<i>E.coli</i> Culture	Nutrient Agar	1	Each
S07408ND	<i>Enterococcus faecalis</i>	Dextrose Starch Agar or Brain Heart Infusion Agar	1	Each
S07196ND	<i>Proteus vulgaris</i>	Nutrient Agar	1	Each
S07195ND	<i>Pseudomonas aeruginosa</i>	Nutrient Agar	1	Each
S07203ND	<i>Staphylococcus aureus</i> (Coagulase positive)	Brain Heart Infusion Agar	1	Each
S07405ND	<i>Staphylococcus epidermidis</i>	Nutrient Agar	1	Each
S07400ND	<i>Streptococcus pyogenes</i>	Tryptic Soy Agar with 5% Sheep Blood	1	Each
S07426ND	<i>Serratia marcescens</i>	Nutrient Agar	1	Each
S07403ND	<i>E.coli</i> MicroKwik Culture™	Nutrient Agar	1	Each
S07192ND	<i>Micrococcus luteus</i> Culture	Brain Heart Infusion Agar/Broth	1	Each
S07201ND	<i>Serratia marcescens</i>	Nutrient Agar	1	Each



SHIPPING ALERT: Because these items are living or perishable materials a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000.

Gram Stain Comparison Set

A selection of five bacterial tube cultures representing Gram-negative and Gram-positive bacteria. This characteristic of bacteria is determined by the make-up of the cell wall and tested by using the Gram-stain method, which is the first step in identifying a bacterium.

Includes:

- *Bacillus cereus* (Gram-positive rod)
- *Branhamella catarrhalis* (Gram-negative coccus)
- *Micrococcus luteus* (Gram-positive coccus)
- *Rhodospirillum rubrum* (Gram-negative spiral)
- *Serratia marcescens* (Gram-negative rod)

⚠ **ALERTS: There is a SHIPPING ALERT for this product group, see box below.**

Cat. No.	Description	Quantity	Unit of Measure
S07420ND	Bacteria Gram Stain Comparison Set	5	Pack



Cyanobacteria Cultures

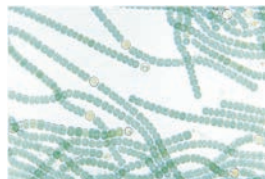
Cyanobacteria, also known as blue-green bacteria, blue-green algae and Cyanophyta, is a phylum of bacteria that obtain their energy through photosynthesis.

Low light is 50 to 100 ft. candles of fluorescent light or fluorescent light from the ceiling; High light level is 200 to 400 ft. candles of fluorescent light 18 to 24 in. from the culture.

- Enough material for a class of 30 students

⚠ **ALERTS: There is a SHIPPING ALERT for this product group, see box below.**

Cat. No.	Description	Media Type	Quantity	Unit of Measure
S07461ND	<i>Anabaena</i>	Alga-Gro™ freshwater	1	Each
S07474ND	<i>Gloeocapsa</i>	Allen's	1	Each
S07481ND	<i>Oscillatoria</i>	Alga-Gro™ freshwater	1	Each



Protists

Basic Protozoa Set

Watch *amoeba* capturing food, *paramecia* undergoing conjugation and *euglena* doing backflips.

- Three separate cultures

⚠ **ALERTS: There is a SHIPPING ALERT for this product group, see box below.**

Cat. No.	Description	Quantity	Unit of Measure
S07446ND	Protozoa Basic Set	3	Pack



Individual Protozoan Cultures

Various protozoa are available: flagellates, sarcodines, and ciliates.

Note: To ensure you order enough living materials for the number of students in your class, order 1 culture for up to 30 students, 2 cultures for 31 to 60 students, 3 cultures for 61 to 90 students, etc.

⚠ **ALERTS: There is a SHIPPING ALERT for this product group, see box below.**

Cat. No.	Description	Media Type	Quantity	Unit of Measure
S07216ND	Flagellate: <i>Volvox</i>	Alga-Gro™ freshwater or soil water	1	Each
S07222ND	Flagellate: <i>Euglena</i>	Euglena Medium	1	Each
S07217ND	Sarcodine: <i>Amoeba Proteus</i>	Chilomonas and Wheat Seed with Springwater	1	Each
S07219ND	Ciliate: <i>Paramecium</i>	Springwater and Wheat Seed	1	Each
S07220ND	Ciliate: <i>Paramecium caudatum</i>	Springwater and Wheat Seed	1	Each
S07223ND	Ciliate: <i>Stentor coeruleus</i>	Chilomonas and Wheat Seed	1	Each
S07224ND	Ciliate: <i>Vorticella</i>	Not recommended for culturing	1	Each



SHIPPING ALERT: Because these items are living or perishable materials a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000.

Slime Mold Cultures

Slime mold is a broad term describing some organisms that use spores to reproduce.

- Myxomycetes
- To ensure you order enough living materials for the number of students in your class, order one culture for up to 30 students, two cultures for 31 to 60 students, three cultures for 61 to 90 students, etc.

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Packaging	Quantity	Unit of Measure
S07213ND	<i>Physarum polycephalum</i> <i>Plasmodium</i>	Plate	1	Each



Amoeba, Paramecium and Euglena Review Set

The protozoan body consists of a single cell, but it is a mistake to think of these organisms as simple.

Includes:

- A separate culture of Amoeba, Paramecium and Euglena
- A pad of 30 Bioreview™ sheets for each culture
- Instructions for culturing each form
- Materials for a class of 30

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07444ND	<i>Amoeba</i> , <i>Paramecium</i> , and <i>Euglena</i> Review Set	3	Pack



Green Algae Mixture

The green algae include unicellular and colonial flagellates, most with two flagella per cell, as well as various colonial, coccoid and filamentous forms, and macroscopic seaweeds.

- Five representatives of green algae: *Chlorella*, *Scenedesmus*, *Selenastrum*, *Ulothrix*, and *Volvox*
- Materials for a class of 30 students

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07475ND	Green Algae Mixture	1	Each



Protozoan Mixture

Protozoan species vary greatly in size.

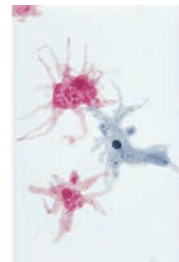
- Six species of protozoa in a single 2 oz. jar

Includes a single culture containing:

- *Amoeba*
- *Paramecium*
- *Chilomonas*
- *Stentor*
- *Euglena*
- *Volvox*
- Materials for a class of 30 students

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07227ND	Protozoan Mixture	1	Each



Protozoa Survey Set

Study protists, cell structure and diversity.

- Six individually labeled cultures
- Each culture can be used for a class of 30

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07228ND	Protozoa Survey Set	1	Each



Ciliate Mixture

Ciliates are one of the most important groups of protists; they are common almost everywhere there is water eg. lakes, ponds, oceans, rivers, and soils.

- A single culture containing a mixture of five forms
- Materials for a class of 30 students
- Each mixture contains three or more genera in a single 2 oz. jar

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07450ND	Protozoa Mixed Ciliates	1	Each



SHIPPING ALERT: Because these items are living or perishable materials a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000.

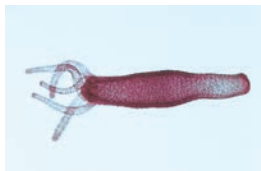
Pond Mixture

Great for demonstrating how ecosystems thrive.

- Four species in a single 2 oz. jar
- Materials for a class of 30 students
- **Includes:** A single culture containing: *Volvox*, *Hydra*, *Planaria* or *Daphnia*, *Diatoms*, and unicellular plants

⚠ **ALERTS: There is a SHIPPING ALERT for this product group, see box below.**

Cat. No.	Description	Quantity	Unit of Measure
S07452ND	Pond Mixture	1	Each



Pond Mystery Mix

Investigate the diversity of pond microorganisms with this unique dried mixture; just add springwater to bring it to life!

The mixture contains a variety of materials and nutrients to support microorganism growth and food chains. Your students can observe bacteria and other single-celled organisms within 24 hours after adding water; larger microinvertebrates will appear within a week.

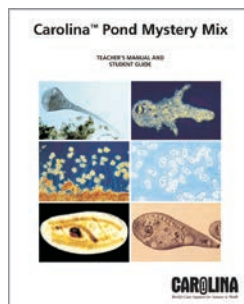
- Safely stores for years in dried form, without special handling

Includes:

- Bacteria
- Protozoa
- Algae
- Rotifers
- Ostracods
- And others
- Instructions and illustrations of some of the more commonly seen organisms

⚠ **ALERTS: There is a SHIPPING ALERT for this product group, see box below.**

Cat. No.	Description	Quantity	Unit of Measure
S07453ND	Protozoa Pond Mystery Mix	1	Each



Protozoa Survey Mixture

The protozoan body consists of a single cell, but it is a mistake to think of these organisms as simple.

- Shipped in a single 2 oz. jar

Includes:

- A single culture containing six representative genera of protozoa
- Dichotomous key to aid in their identification
- Materials for a class of 30 students

⚠ **ALERTS: There is a SHIPPING ALERT for this product group, see box below.**

Cat. No.	Description	Quantity	Unit of Measure
S07455ND	Protozoa Survey Mixture	1	Each



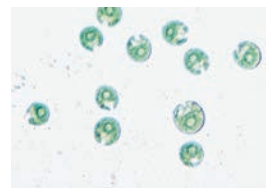
Individual Green Algae Cultures

Green algae are eukaryotic organisms that follow a reproduction cycle called alternation of generations.

- Low light is 50 to 100 ft. candles of fluorescent light or fluorescent light from the ceiling
- High light level is 200 to 400 ft. candles of fluorescent light 18 to 24 inches from the culture

⚠ **ALERTS: There is a SHIPPING ALERT for this product group, see box below.**

Cat. No.	Description	Media Type	Quantity	Unit of Measure
S07465ND	<i>Chlorella</i>	Alga-Gro™ freshwater	1	Each



Freshwater Spirogyra

Collected from Carolina Biological Supply Company's ponds.

- Enough material for a class of 30 students

⚠ **ALERTS: There is a SHIPPING ALERT for this product group, see box below.**

Cat. No.	Description	Quantity	Unit of Measure
S07469ND	Algae Collected <i>Spirogyra</i>	1	Each



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Protozoa Classification Set

Protozoa, a group of 215,000 described species of flagellates, amoebas, spore formers and ciliates, are excellent tools to help students understand single-celled organisms.

- Includes nine individual cultures representing the three main classes of protozoa

Includes:

- Sarcodines: *Amoeba*, *Arcella*, *Diffugia*
- Flagellates: *Euglena*, *Pandorina*, *Peranema*
- Ciliates: *Blepharisma*, *P. bursaria*, *Euplotes*
- Instructions

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07449ND	Protozoa Classification Set	9	Pack



Fungi

Sordaria Demonstration Cross Plate

A cross of *Sordaria fimicola* wild type and the mutant tan strain for demonstrating genetic crossing-over.

- Easy to perform
- Requires some basic training in microbiology
- One plate

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07440ND	Sordaria Demonstration Cross Plate	1	Each



Individual Fungi Cultures

Fungi can help you teach many topics in ecology, genetics, biochemistry and other disciplines.

Fungi are important decomposers that help recycle organic materials in food webs, which makes them great subjects for ecological studies. Students can culture them for genetic studies. For studies in biochemistry, students can investigate the role yeast plays in the production of wine, beer and baked goods.

- Available in tube cultures, plate cultures or MicroKwik Cultures™
- Labeled by name and media on which they are cultivated
- Guaranteed for purity and genera
- Incubate at room temperature (26°C)

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Scientific Name	Packaging	Quantity	Unit of Measure
S07437ND	<i>Pilobolus crystallinus</i>	Plate	1	Each
S07243ND	<i>Penicillium notatum</i>	Vial	1	Each
S07205ND	<i>Aspergillus niger</i>	Tube	1	Each

Carolina™ MicroKwik Culture™: Since a MicroKwik Culture can be refrigerated, you can order it ahead of time for use on short notice.



Plants

Carnivorous Plants Collection

Carnivorous plants derive some or most of their nutrients from trapping and consuming animals or protozoans, typically insects and other arthropods.

- Carnivorous plants should be maintained in a small terrarium or other suitable environment
- Includes purple pitcher plant, venus flytrap, sundew, butterwort
- Not for export

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07547ND	Carnivorous Plants Collection	4	Pack



SHIPPING ALERT: Because these items are living or perishable materials a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000.

Elodea densa

Your fish can breathe easier with *Elodea densa*, the best of the oxygenating plants.

This vigorous, healthy plant needs good light and should be anchored in soil or sand.

- Cultivated form
- Keeps water conditioned and oxygenated
- Can survive and grow as floating fragments
- Recommended for photosynthesis studies
- Instructions included

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07497ND	<i>Elodea densa</i>	12	Pack
S07498ND	<i>Elodea densa</i>	25	Pack
S07499ND	<i>Elodea densa</i>	50	Pack
S07500ND	<i>Elodea</i> Tips	1	Each
S07496ND	<i>Elodea densa</i> Coupon	1	Each

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.

Duckweed

Duckweed are small plants that often cover the water like a green carpet.

- *Lemna minor*
- Monocot
- Unit contains 100 to 150 plants
- Instructions included

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07493ND	Duckweed	150	Pack



Living Plants

Excellent choice for studying plant cells, osmosis, and plasmolysis.

S07550ND Coleus

- An especially good specimen for starch-iodine reaction studies, to show absence of photosynthesis in non-green areas
- White variegated
- Vigorous clone, easy to propagate from stem cuttings
- One plant

S07571ND Tropical Fern Set

- Ferns reproduce via spores and don't have seeds or flowers, most ferns have what are called fiddleheads
- **Includes:** A set of five different tropical ferns
- Interesting forms such as: Boston fern, Staghorn fern, Korean rock fern, Button fern, Lemon button fern, Silver lace fern, Bird's nest fern, etc., may be included

S07511ND Liverwort Set

- It is estimated that there are about 9,000 species of liverworts
- **Includes:** 4 different liverworts (genera may vary seasonally)
- Marchantia Life Cycle Bioreview™ Sheet

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07550ND	<i>Coleus</i>	1	Each
S07571ND	Tropical Fern Set	5	Pack
S07511ND	Liverwort Set	4	Pack



Moss Set

Mosses commonly grow close together in clumps or mats in damp or shady locations.

Includes:

- Vegetative portions of 3 mosses
- 1 portion of sporulating moss (genera may vary seasonally)
- Polytrichum Life Cycle Bioreview™ Sheet

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07517ND	Moss Set	4	Pack



Living Reef Set

Bring a living reef in your classroom!

- Includes 16 marine organisms such as crabs, damselfish, shrimp, snails, starfish, sea cucumbers and anemones, 2 lb. of live rock

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07262ND	Living Reef Set	1	Each



SHIPPING ALERT: Because these items are living or perishable materials a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000.

Animals

Invertebrates

Hydra, Planaria and Daphnia Review Set

Observe the similarities and differences between some of the most popular invertebrates.

Includes:

- A separate culture of *Hydra*, *Planaria*, and *Daphnia*
- A pad of 30 Bioreview™ sheets for each
- Instructions for culturing each form

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07594ND	Hydra, Planaria, and Daphnia Review Set	3	Pack

Daphnia pulex

Daphnia pulex is the most common species of water flea.

Daphnia pulex is an easy-to-grow food source for *hydra* and small fish.

- For a class of 30 students
- Recommended for environmental studies
- Prolific: grow to feed your fish

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07269ND	Daphnia Pulex	1	Each



Daphnia magna

Cultures of *D. magna* contain adults, juveniles, and neonates.

- For a class of 30 students
- A large species of *Daphnia*
- Commonly used in aquatic effluent toxicity testing
- An obligate algal feeder
- Cultured using powdered *Spirulina* as a food source

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07268ND	Daphnia magna	1	Each
S07268CND	Daphnia magna Coupon	1	Each

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.



Hydra

An underwater wonder!

Generally, the brown hydra species shipped is *Hydra littoralis*. Specimens are freshly collected to ensure maximum natural size and optimum physiological condition.

- For a class of 30 students
- Easily maintained in a freshwater aquarium
- Needs no filtration or aeration system
- Reproduces rapidly when fed daily

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07265ND	Hydra Brown	1	Each



Planaria

Remarkable regeneration!

Witness how *planaria* can grow new heads and tails.

- For a class of 30 students
- Great for regeneration and memory studies
- Affordable
- Easy to culture
- A single species or color is selected based on availability
- Instructions included

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07590ND	Planaria	1	Each
S37298	Planaria, Living Material Coupon	1	Each



SHIPPING ALERT: Because these items are living or perishable materials a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000.

Brown *Planaria*

Regenerating wonders!

The size of this planarian varies with the season. Smaller forms are more prevalent in early spring; larger or mature forms are evident throughout remainder of year.

- For a class of 30 students
- Great for regeneration and memory studies
- Easy to culture
- Affordable
- Instructions included

⚠ **ALERTS: There is a SHIPPING ALERT for this product group, see box below.**

Cat. No.	Description	Quantity	Unit of Measure
S07229ND	<i>Planaria</i> , Brown	1	Each



Mixed Rotifers

Commonly called wheel animals.

- For a class of 30 students
- Equal numbers of both species in a single culture
- **Includes:** a mixture of *Monostyla* and *Philodina*

⚠ **ALERTS: There is a SHIPPING ALERT for this product group, see box below.**

Cat. No.	Description	Quantity	Unit of Measure
S07231ND	Mixed Rotifers	1	Each



Caenorhabditis elegans N2

Caenorhabditis elegans completes its life cycle in three days, developing from egg through four larval stages to adult.

- Wild-type strain
- Extensively used for genetic studies
- Aseptically maintained on Nematode Growth Agar with *E. coli* as the feeder host

⚠ **ALERTS: There is a SHIPPING ALERT for this product group, see box below.**

Cat. No.	Description	Packaging	Quantity	Unit of Measure
S07601ND	<i>Caenorhabditis elegans</i>	Plate	1	Each



Water Bears

Cryptobiotic (inactive) forms may be made by dehydration and can be reanimated during class for student observation, or about an hour before needed.

- For a class of 30 students
- Tardigrades are supplied in an active form, and are sometimes known as water bears

⚠ **ALERTS: There is a SHIPPING ALERT for this product group, see box below.**

Cat. No.	Description	Quantity	Unit of Measure
S07592ND	Water Bears	1	Each



Earthworms

Students can find these tube-shaped, segmented animals living in soil and feeding on live and dead organic matter.

- *Lumbricus terrestris*
- Large, mature specimens are suitable for laboratory study and dissection
- Medium-sized specimens are not suitable for dissection, but are good for making slides and for use as food for snakes and large salamanders
- Instructions included

⚠ **ALERTS: There is a SHIPPING ALERT for this product group, see box below.**

Cat. No.	Description	Quantity	Unit of Measure
S07271ND	Earthworm	25	Pack



Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.

Pond Snails

Popular medium sized snails for aquariums and hands-on activities.

- Instructions included

⚠ **ALERTS: There is a SHIPPING ALERT for this product group, see box below.**

Cat. No.	Description	Quantity	Unit of Measure
S07278ND	Snails, Pond	12	Pack



SHIPPING ALERT: Because these items are living or perishable materials a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000.

Marine Echinoderm Set

Adult echinoderms are recognizable by their radial symmetry, and include such well-known animals as starfish, sea urchins, sand dollars, and sea cucumbers.

- Set of 16 living animals such as starfish, sea urchins, sand dollars and sea cucumbers with various genera representing a cross section of the phylum Echinodermata

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07581ND	Marine Echinoderm Set	16	Pack



Terrestrial Isopods

They're crustaceans that live on land - yet breathe through gills!

Sow bugs are fantastic examples of environmental adaptation. *Porcellio* (sow bugs) will play dead or run away when disturbed. *Armadillidium* (pill bugs) roll into a protective ball when nudged.

- Easy to care for in a moist environment
- Great for teaching evolution, adaptation, behavior, and much more
- Field collected
- Instructions included

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Scientific Name	Description	Quantity	Unit of Measure
S07274ND	<i>Porcellio</i>	Sow Bug	50	Container
S07654ND	<i>Armadillidium</i>	Pill Bug	50	Container
S07274CND	<i>Porcellio</i>	Sow Bug Coupon	50	Container

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.



Lady Beetle 10-Larvae Culture

Observe all 4 stages of complete metamorphosis with lady beetle larvae.

- Alligator-like larvae grow, pupate and metamorphose in 10 to 14 days
- At least 5 of the 10 to 15 larvae are guaranteed to emerge as healthy adult lady beetles



Cat. No.	Description	Quantity	Unit of Measure
S72460	Lady Beetle Larvae	1	Each

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.

Individual Butterfly Kit

Raise butterflies in your home or classroom while learning about metamorphosis.

- Easy to use, easy to raise
- Comes with live butterfly larvae, pop-up habitat, feeder and instructions
- Perfect for all ages

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S28870	Individual Butterfly Kit	1	Each



SHIPPING ALERT: Because these items are living or perishable materials a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000.

Painted Lady Butterfly Larvae Sets

Teach the concept of butterfly life cycles.

The larvae pupate and emerge as adult butterflies in as little as three weeks. Witnessing metamorphosis is an experience that students never forget!

- Kits include sufficient food to enable larvae to emerge as adult butterflies.
- Store at 22° to 25°C

5-Larvae Culture Kit:

- 8 oz. cup with food
- Five *Vanessa cardui* butterfly larvae
- Larvae care instructions

33 Larvae Culture Kit:

- 1 cup of 33 larvae
- 1 cup of food

Note: Additional larvae are supplied with each Larvae/Food Set to ensure that at least the specified amount of larvae emerge as healthy adults. Extra food must be purchased if you wish to maintain additional larvae.

⚠ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07704ND	Painted Lady Butterfly 5 Larvae Culture	5	Pack
S07705ND	Painted Lady Butterfly 5 Larvae Culture Coupon	5	Each
S07710ND	Painted Lady Butterfly Culture 33 Larvae Set	33	Pack
S07711CND	Painted Lady Butterfly Culture 33 Larvae Set	1	Each

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.

Mealworms

The adult mealworm (*Tenebrio*) lays hundreds of eggs and is the best stage to start a balanced culture. Larvae are ideal food for lizards, salamanders, turtles, and frogs.

- Pupae metamorphose into adults in two to four weeks
- Instructions included

⚠ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07275ND	Mealworm Larvae	100	Pack



Butterflies in the Classroom Kit

These kits make keeping live butterflies simple, fun and affordable.

This kit allows students to work hands-on with living butterflies. From a culture cup that contains 33 larvae and food, each student (or pair of students) transfers a larva and food to its own culture vessel, creating an individual chamber for observation. The provided habitat is simple to set up, easy to clean, great for viewing and collapses for convenient storage.

⚠ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07707ND	Butterflies in the Classroom Kit (with Live Caterpillars)	1	Each
S07708ND	Butterflies in the Classroom Kit (with Prepaid Coupon)	1	Each
S28651	Butterflies in the Classroom Kit Refill	1	Each

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online Web form or mail. To ensure prompt arrival of material, coupons must be redeemed at least two weeks prior to requested delivery date.



Vertebrates

Marine Fish Set

Add these exciting fish to your classroom aquarium.

- A selection of 11 fish specially selected for a classroom community marine tank
- Chalk basslets, Royal grammas, Clown gobies, Watchman gobies, Damselfish, and Blennies

⚠ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Unit of Measure
S07261ND	Marine Fish Set	1	Each



SHIPPING ALERT: Because these items are living or perishable materials a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000.

Blue Channel Catfish

A slender, bluish-gray fish that is a good bottom scavenger.

- These fish are very hardy in aquaria maintained at controlled room temperatures
- *Ictalurus punctatus*
- Popular aquaculture species
- Length ranges from one to two inches (length of a fish includes the tail fin)
- Instructions included

Note 1: Restricted in Alaska, Oregon and California. Permit required prior to purchase in Nevada and Virginia.

Note 2: These fish do not ship well during hot weather.

⚠️ ALERTS: There is a **SHIPPING ALERT** for this product group, see box below.



Cat. No.	Description	Quantity	Unit of Measure
S07715ND	Blue Channel Catfish	3	Pack

Animal Collection and Habitats

Eisco™ Polycarbonate Aquarium Tank

Polycarbonate aquarium tank features the clarity of glass with the durability and safety of plastic. Made from tough polycarbonate plastic, it is crack-resistant and carries a natural UV filtering quality.

- One piece molded polycarbonate plastic aquarium tank
- Use for terrarium, aquarium, or insect habitat
- Transparency provides excellent visibility
- UV protectant



Cat. No.	Capacity	Quantity	Unit of Measure
S26603	0.75 gal.	1	Each
S26596	1.75 gal.	1	Each

AquaPhoenix Scientific™ Education Aquarium Tanks

Aquariums are made with glass panels, fitted and silicone-sealed into injected molded frames.

- Lighted hood covers and electronic ballast hold fixtures for a single fluorescent bulb (available separately)



Cat. No.	Capacity	Quantity	Unit of Measure
S06524	20 gal.	1	Each

AquaPhoenix Scientific™ Basic Aquarium Kit

Marina Style 10 kit comes with everything you need for an easy set-up experience.

- Measuring only 20 × 10 × 12 in. (50 × 25 × 30 cm), the sleek design helps save valuable classroom space.

Includes: Marina Slim S15 clip-on filter with quick change filter cartridges, an incandescent canopy and bottom frame with two 15w clear bulbs, Nutrafin Max fish food, Nutrafin AquaPlus and Nutrafin Cycle water purifiers, fish net, thermometer and care guide



Cat. No.	Capacity	Quantity	Unit of Measure
S06532	10 gal.	1	Each

AquaPhoenix Scientific™ Aquarium Gravel

Premium gravel adds a beautiful touch to your aquarium or fish tank.

Whether you're looking for a bright substrate or something for your natural tank, pure water pebbles are exactly what your tank requires.

- Designed specifically for use in freshwater aquariums
- Gravel does not affect water chemistry in any way and provides a great place for beneficial bacteria to colonize



Cat. No.	Weight (English)	Quantity	Unit of Measure
S06534	5 lb.	1	Each
S06535	25 lb.	1	Each

AquaPhoenix Scientific™ Automatic Fish Feeder

Large-capacity drum is capable of holding up to four weeks of flake food.

- Safe, accurate and easy to feed fish when not fed regularly
- Easy clamp-on mechanism makes it possible to attach to the rim of the aquarium or to let it stand freely on the hood or glass canopy



Cat. No.	Description	Quantity	Unit of Measure
S06541	Automatic Fish Feeder	1	Each



SHIPPING ALERT: Because these items are living or perishable materials a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000.

Eisco™ Insect Collecting Net with 30 in. Handle

The net is attached to a heavy duty iron ring and has plenty of room for insects.

- Net for catching insects
- 30 in. handle
- 12 in. diameter net with wire ring
- Net is 31 in. deep

WARRANTY: 1 year limited manufacturer

Cat. No.	Description	Quantity	Unit of Measure
S29533	Insect Collecting Net with Wooden Handle	1	Each
S29344	Insect Collecting Net with Aluminum Handle	1	Each



Eisco™ Sweeping Net

Designed for sweeping vegetation to collect insects, and features a lightweight aluminum handle with rubber grip.

- 10 in. diameter frame
- 12 in. deep nylon net
- 36 in. lightweight aluminum handle with rubber grip
- Great durability

WARRANTY: 1 year limited manufacturer

Cat. No.	Description	Quantity	Unit of Measure
S29348	Sweeping Net	1	Each



Amazing Bugs™ Habitat

Suitable for butterflies and other insects. Acts as a handy pop-up habitat that can be hung up or set on a table or shelf.

- Packs flat for storage
- Features clear plastic zippered top, clear-view mesh sides, and a sturdy nylon floor



Cat. No.	Description	Quantity	Unit of Measure
S28650	Butterfly Habitat	1	Each

LabREED™ Tank Kit, with Baffle, Cover



The LabREED™ Tank Kit, with Baffle, Cover is a tank kit for Zebrafish that includes the tank, lid, and an adult baffle.

- Zebrafish Tank Kit
- Available in 3 sizes
- Material: Polycarbonate

Cat. No.	Capacity (Metric)	Quantity	Unit of Measure
AQ72LTBC	2 L	1	Each
AQ74LTBC	4 L	1	Each
AQ79LTBC	9 L	1	Each

Preserved Specimens

Invertebrates

Formalin Quahog

Ideal for studying bivalve anatomy.

- *Venus sp.*
- Large, thick-shelled marine clams
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde.



Cat. No.	Description	Injection Type	Quantity	Unit of Measure
S37690*	Formalin Quahog	Plain	1	Each

Formalin Ascaris

A parasitic nematode also known as roundworm.

- *Ascaris lumbricoides*
- Majority are females with very few, if any, males for comparison
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde

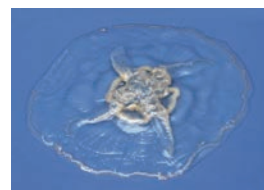


Cat. No.	Description	Quantity	Unit of Measure
S37687*	Formalin Ascaris	1	Each

Formalin Jellyfish

For use in study of anatomy of cnidarians using common, formalin-preserved jellyfish.

- Common marine jellyfish - Aurelia
- Class Scyphozoa
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Length	Quantity	Unit of Measure
S37683*	4 to 6 in.	1	Each
S37684*	3 to 4 in.	1	Each



Formalin Blue Crab

Ideal for exploring the anatomy of an advanced crustacean during invertebrate and comparative anatomy classes.

- Blue Crab (*Callinectes* sp.)
- Great for studying crustacean anatomy
- Preserved in formalin
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Injection Type	Quantity	Unit of Measure
S72736	Plain	1	Each

Formalin Crayfish

For use in exploring relationship between structure, function, and environment using formalin-preserved crayfish.

- *Pacifastacus* sp.
- Phylum Arthropoda, class Crustacea
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Length	Injection Type	Quantity	Unit of Measure
S37695*	4 in.	Plain	1	Each

Formalin Earthworms

For use in introducing students to invertebrate anatomy. Ideal introductory dissection specimens.

- *Lumbricus terrestris*
- Phylum Annelida, segmented worms
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Length	Injection Type	Quantity	Unit of Measure
S37693*	9 to 12 in.	Plain	50	Pack

Formalin Grasshoppers

An excellent introductory specimen for dissecting and studying insect anatomy.

- Louisiana Lubber Grasshoppers (*Romalea microptera* or *Brachystoma*)
- Perfect introductory dissection specimen
- Large size is perfect for studying specialized external and internal anatomy
- Preserved in formalin
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Injection Type	Quantity	Unit of Measure
S72459*	Plain	10	Pack
S72737	Single	10	Pack

Formalin Lamprey, Plain

For use in examining the anatomy of the jawless fish. Ideal for comparative anatomy classes and discussions about common ancestry and diversity.

- Member of class Agnatha
- Mature specimens
- Characteristics: jawless vertebrate, paired gill openings, no paired fins, well developed eyes
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Injection Type	Quantity	Unit of Measure
S72733	Plain	1	Each

Formalin Squid

For exploring the form and function of cephalopods. Squid is a complex mollusk with tentacles, arms, and well-developed eye.

- *Loligo pealeii* or *Illex illecebrosus*
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde
- INJECTIONS: Plain: no color



Cat. No.	Length	Injection Type	Quantity	Unit of Measure
S37627*	Up to 8 in. (Up to 20.3 cm)	Plain	1	Each
S37622*	12+ in. (30.4+ cm)	Plain	1	Each
S37626*	8 to 12 in. (20.3 to 30.4 cm)	Single	1	Each
S37623*	12+ in. (30.4+ cm)	Single	1	Each



Formalin Starfish

For use in study of invertebrate anatomy. Carolina™ Formalin Starfish is ideal introductory dissection specimen.

- Asterias or Pisaster sp.
- Representative echinoderm
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde



Cat. No.	Length	Injection Type	Quantity	Unit of Measure
S37698*	5 to 6 in. (12.7 to 15.2 cm)	Plain	1	Each
S37697*	6 to 8 in. (15.2 to 20.3 cm)	Plain	1	Each

Vertebrates

Amphibians

Formalin Frogs

For use in introducing students to vertebrate anatomy. These grass frogs are ideal for study of body systems.

- No need for scalpel – students only need dissecting scissors
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Length	Injection Type	Quantity	Unit of Measure
S37646*	3 to 4 in.	Plain	1	Each
S37643	4 to 5 in.	Plain	1	Each
S37640*	5+ in.	Plain	1	Each
S37714*	4 to 5 in.	Double	1	Each

Birds

Formalin Pigeon

For use in exploring avian anatomy, specimen is ideal for comparative vertebrate courses.

- Family Columbidae
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Injection Type	Quantity	Unit of Measure
S37649*	Plain	1	Each

Fish

Formalin Perch

For use in studying anatomy and physiology of bony fish. Carolina™ Formalin Perch belongs to class Osteichthyes.

- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde
- INJECTIONS: Plain: no color injection; Single: red arteries; Double: red a



Cat. No.	Length	Injection Type	Quantity	Unit of Measure
S37705*	7 to 9 in. (17.7 to 22.8 cm)	Plain	1	Each

Formalin Dogfish Sharks

For use in exploring anatomy of cartilaginous fish, specimens are ideal for comparative and vertebrate anatomy classes.

- Member of class Chondrichthyes
- Mature specimens
- Characteristics: cartilaginous skeleton, five pairs of gill slits, no swim bladder or operculum
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Length	Injection Type	Quantity	Unit of Measure
S37635*	22 to 27 in. (55.8 to 68.5 cm)	Single	1	Each
S37634*	22 to 27 in. (55.8 to 68.5 cm)	Plain	1	Each
S37231	18 to 22 in. (45.7 to 55.9 cm)	Plain	1	Each
S37630*	27+ in. (68.5+ cm)	Plain	1	Each
S37232	27+ in. (68.5+ cm)	Double, Pregnant	1	Each
S37632*	27+ in. (68.5+ cm)	Double	1	Each

Mammals

Formalin Cats

For use in advanced biology, anatomy and physiology classes.

- *Felis catus*
- Similar to human anatomy
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Length	Injection Type	Quantity	Unit of Measure
S37655ND*	14 to 18 in. (35.5 to 45.7 cm)	Plain	1	Each
S37653ND*	18+ in. (45.7+ cm)	Double	1	Each

Formalin Skinned Cats

Formalin-preserved cats are ideal dissection specimens for advanced biology and anatomy and physiology classes.

- *Felis catus*
- Ideal specimen for studying advanced mammalian anatomy and physiology
- Similar to human anatomy
- Skin has been removed to save time and reveal underlying muscles
- Preserved in formalin
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde

INJECTIONS:

- Plain: no color injection
- Single: red arteries
- Double: red arteries, blue systemic veins
- Triple: red arteries, blue systemic veins, yellow hepatic system

Cat. No.	Length	Injection Type	Quantity	Unit of Measure
S37659*	7+ in.	Plain	1	Each
S37661*	7+ in.	Double	1	Each



Formalin Mink

Packaged in waterproof plastic bags which ensures safe and non-toxic environment.

- Ranch-raised, formalin-preserved mink
- 15 in. in length
- Waterproof student name tags are furnished free with each mink

Cat. No.	Injection Type	Quantity	Unit of Measure
S37304*	Plain	1	Each
S37305*	Double	1	Each



Formalin Pigs

For use in introducing students to mammalian anatomy.

- Fetal and/or stillborn pigs that do not have well-defined musculature
- Mainly used in basic high school and college biology classes
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde

Cat. No.	Length	Injection Type	Quantity	Unit of Measure
S37666*	14+ in. (35.5+ cm)	Double	1	Each
S37667*	11 to 14 in. (27.9 to 35.5 cm)	Plain	1	Each
S37672*	7 to 11 in. (17.7 to 27.9 cm)	Double	1	Each
S37669*	11 to 14 in. (27.9 to 35.5 cm)	Double	1	Each
S37664*	14+ in. (35.5+ cm)	Plain	1	Each



Formalin Rats

The well-developed musculature and reproductive system make these specimens ideal for mammalian anatomy study.

- Mature specimen
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde

Cat. No.	Length	Injection Type	Quantity	Unit of Measure
S37659*	7+ in.	Plain	1	Each
S37661*	7+ in.	Double	1	Each



Mammalian Organs

Formalin Preserved Sheep Pluck, Plain

Allows students to explore physiological links between organ systems and identify general structures representative of mammals.

- Heart with aorta and lungs with trachea
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde
- Plain: No color injection

Cat. No.	Description	Quantity	Unit of Measure
S28064*	Formalin Sheep Pluck	1	Each



Formalin Preserved Sheep Half Brain

Used to study mammalian brain structure.

- Similar to human brain
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde
- Plain: No color injection
- Individually damp-packed in vacuum-sealed bags

Cat. No.	Description	Quantity	Unit of Measure
S28070*	Formalin Sheep Half Brain	1	Each



Formalin Preserved Sheep Brain, Dura Mater Removed



Used to study mammalian brain structure.

- Similar to human brain
- Sheep brain with dura mater removed and optic chiasma intact
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde
- Plain: No color injection



Cat. No.	Description	Quantity	Unit of Measure
S81894*	Sheep Brain	1	Each
S28069*	Sheep Brain, Dura Mater Removed	1	Each

Formalin Preserved Sheep Brain, Dura Mater Intact

Used to study mammalian brain structure.

- Explores general structures representative of mammals
- Connects structure to function
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Description	Quantity	Unit of Measure
S28065*	Formalin Sheep Brain, Dura Mater Intact, Hypophysis Intact	1	Each

Formalin Preserved Sheep Brain, Dura Mater Removed, Hypophysis Intact

Used to study mammalian brain structure.

- Similar to human brain
- Sheep brain with dura mater removed and hypophysis (pituitary gland) intact to aid in brain study
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde
- Plain: No color injection
- Individually damp-packed in vacuum-sealed bags



Cat. No.	Description	Quantity	Unit of Measure
S28071*	Formalin Sheep Brain, Dura Mater Removed, Hypophysis	1	Each

Formalin Preserved Sheep Heart in Pericardium



Allows students to explore physiological links between organ systems and identify general structures representative of mammals.

- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde
- Plain: No color injection

Cat. No.	Description	Quantity	Unit of Measure
S28073*	Formalin Sheep Heart, Pericardium	1	Each

Formalin Preserved Sheep Heart, Plain

Allows students to explore physiological links between organ systems and identify general structures representative of mammals.

- Heart with base of aorta attached
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde
- Plain: No color injection



Cat. No.	Description	Quantity	Unit of Measure
S28067*	Formalin Sheep Heart	1	Each

Formalin Preserved Sheep Eyes

Explores eye structures representative of mammals.

- Packaged in vacuum-sealed bag
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Description	Quantity	Unit of Measure
S28068	Sheep Eye	1	Each



Formalin Preserved Sheep Kidney

Allows students to explore physiological links between organ systems and identify general structures representative of mammals.

- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde
- Plain: No color injection



Cat. No.	Description	Quantity	Unit of Measure
S28066*	Formalin Preserved Sheep Kidney	1	Each

Formalin Preserved Sheep Organ Set with Manual

Allows students to identify physiological links between organ systems.

- Explores general structures representative of mammals
- Connects structure to function
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde
- Simple dissection guides are provided for each organ

Includes: Formalin preserved sheep brain, sheep heart, sheep eye, and sheep kidney, dissection guides for each organ



Cat. No.	Description	Quantity	Unit of Measure
S28075*	Formalin Sheep Organ Set	1	Each

Formalin Pig Heart

Ideal for studying structure and function of heart.

- Four-chambered mammalian heart
- Like a human heart, only larger
- Easily trace blood flow through the heart
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Description	Quantity	Unit of Measure
S37674*	Formalin Pig Heart	1	Each

Formalin Pig Eyes

For use in exploring the anatomy of mammalian eye.

- Easy dissection and examination of the mammalian eye as pig eyes are similar to human eye
- Smaller than cow eyes and have less muscle and fatty tissue attached
- Preserved in formalin
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Description	Quantity	Unit of Measure
S72455*	Formalin Pig Eyes	1	Each

Formalin Pig Kidney

For studying structure and function of kidney.

- Similar to a human kidney, but larger
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Injection Type	Quantity	Unit of Measure
S37675*	Plain	1	Each
S72738	Double	1	Each
S72739	Triple	1	Each

Formalin Cow Heart

Ideal for studying structure and function of heart.

- Four-chambered mammalian heart
- Like a human heart, only much larger
- Large size allows students to easily study anatomy
- Easily trace blood flow
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Description	Quantity	Unit of Measure
S37676*	Formalin Cow Heart	1	Each

Formalin Cow Eyes

For use in exploring anatomy of mammalian eye.

- Large size allows easy dissection and examination
- Preserved in formalin
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Description	Quantity	Unit of Measure
S37717	Formalin Cow Eyes	1	Each



Formalin Bull Testicle

Supports the study of the male reproductive system.

- Procured from an adult bull (2 to 2.5 years old)
- Includes the spermatic cord, epididymis, and vas deferens
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Description	Quantity	Unit of Measure
S72735	Formalin Bull Testicle	1	Each

Reptiles

Formalin Non-Venomous Snake

This specimen helps students learn about reptiles by studying its anatomy, and is ideal for comparative vertebrate courses.

- Species vary based on availability
- Shipped in Carosafe™, an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Description	Quantity	Unit of Measure
S37648*	Formalin Non-Venomous Snake	1	Each



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Dissection Supplies

Teaching Aids

Eisco™ Jumbo Frog Dissection Model

This jumbo frog dissection model is a great alternative or supplement to traditional dissection, it is also useful for virtual learning.

- Demonstrates the general structure of a frog from the genus Rana
- Enlarged for better visualization of internal organs
- Dorsal side shows the external structure of the head, body, and forelegs
- Cutaway of the ventral view shows internal organs
- Liver and intestine are removed to allow for detailed study of circulatory, female reproductive, and urinary systems
- Vividly hand painted with eco-friendly paint
- Made of durable polyvinyl chloride (PVC) plastic which is corrosion-resistant, lightweight, and has high strength
- Resists reactions with acids, gasoline, alcohol, and hydrocarbons
- An alternative or supplement to traditional dissection in the classroom
- Identification key card included



Cat. No.	Description	Quantity	Unit of Measure
S27900	Jumbo 3D Frog Dissection Model	1	Each

Eisco™ Frog Dissection Model

The frog dissection model is a hand painted, vividly colored replication of a dissected frog with numbered features to assist with organ identification.

- Perfect supplement to accompany frog dissection activities
- Mounted on base
- Includes English key card
- Dimensions (L x W x H): 51 x 45 x 9 cm



Cat. No.	Description	Quantity	Unit of Measure
S13527	Frog Dissection Model	1	Each



Eisco™ Pigeon Dissection Model

This pigeon dissection model is a great alternative or supplement to traditional bird dissection, it is also useful for virtual learning.

- Model demonstrates the general structure of a pigeon
- Enlarged for better visualization of internal organs
- Vividly hand painted with eco-friendly paint
- Made of durable polyvinyl chloride (PVC) plastic which is corrosion-resistant, lightweight, and has high strength
- Resists reactions with acids, gasoline, alcohol, and hydrocarbons
- An alternative or supplement to traditional dissection in the classroom
- Identification key card included
- Dimensions (L x W): 18 x 16 in.



Cat. No.	Description	Quantity	Unit of Measure
S27901	Pigeon Dissection Model	1	Each

Eisco™ Pig Dissection Model

This pig dissection model is a great alternative or supplement to traditional dissection, it is also useful for virtual learning.

- Model demonstrates the general structure and internal organs of a pig
- Features include detachable liver, intestines, two piece heart, lungs, and stomach
- Made of durable polyvinyl chloride (PVC) plastic which is corrosion-resistant, lightweight, and has high strength
- Resists reactions with acids, gasoline, alcohol, and hydrocarbons
- Vividly hand painted with eco-friendly paint
- An alternative or supplement to traditional dissection in the classroom
- Identification key card included
- Dimensions (L x W x H): 56 x 30 x 7 cm



Cat. No.	Description	Quantity	Unit of Measure
S27906	Pig Dissection Model	1	Each

Eisco™ Earthworm Dissection Model

Shows internal and external structures.

- Extra large model to study Annelids
- One part shows external structure
- Another end dissected to show internal organs
- Highlights structures of digestive, circulatory and reproductive systems
- Mounted on base
- Supplied with English key card
- Dimensions (L x W x H): 22 x 11.8 x 2.8 in.

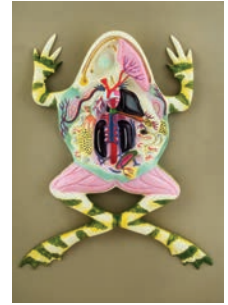


Cat. No.	Description	Quantity	Unit of Measure
S96548	Earthworm Dissection Model	1	Each

Eisco™ Frog Dissection Model

Demonstrates internal structures of a frog and can be used to enhance or replace physical dissection laboratory activities.

- Model representative of a dissected frog
- Numbered internal and external structures
- Mounted on base
- Supplied with English key card
- Ideal for biology classrooms



Cat. No.	Description	Quantity	Unit of Measure
S80861	Model Frog Dissection - Small	1	Each

Frog Dissection 3D Model Kit

Assemble and use 3D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grade 6 to 10

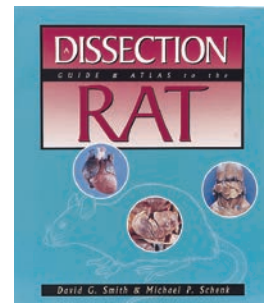


Cat. No.	Description	Quantity	Unit of Measure
S81454	Frog Dissection 3D Model Kit	1	Each

Dissection Guide and Atlas to the Rat

Student-friendly dissection guide with step-by-step instructions and photographs that help anatomic structures.

- Unbound with perforations for 3-ring binder
- Full color photographs
- Grade 5 to Undergraduate



Cat. No.	Description	Quantity	Unit of Measure
S72750	Dissection Guide and Atlas to the Rat	1	Each

Dissection Mats

Allow students to self-guide their specimen dissections.

- Double-sided, waterproof vinyl mat
- reusable; easily wipes clean

Includes:

- Simple dissection instructions
- Detailed, color photographs
- Labeled external and internal anatomy
- Defined structures with functions



Cat. No.	Subject	Grade Level	Quantity	Unit of Measure
S72740	Sheep Brain	3 to Undergraduate	1	Each
S72741	Mammalian Heart	5 to Undergraduate	1	Each
S72745	Dogfish Shark	7 to Undergraduate	1	Each
S72752	Starfish	3 to Undergraduate	1	Each

Fetal Pig Dissection 3D Model Making Kit

Allows students to build a model fetal pig with organs to learn about the anatomy of the major body systems.

- The model can be used look to at the anatomy of the major body systems and covers the nervous system, circulatory system, respiratory system, digestive system, excretory system, and male and female reproductive systems.
- The model also shows how a fetal pig differs from an adult animal through coverage of fetal circulation and the umbilical cord.
- Students can then carry out a dissection to see how the parts fit together for comparative anatomy as well as an excellent means to prepare for a dissection.
- The Model Making Kit includes enough materials for students to assemble up to 5 paper models working cooperatively.
- The comprehensive Teacher Resource Guide included provides illustrated readings, activities, key vocabulary and an assessment, along with teaching opportunities for students to Engage, Explore, Explain, Extend and Evaluate their understanding of the concepts presented.
- Grade 6 to 10



Cat. No.	Description	Quantity	Unit of Measure
S436047	Fetal Pig Dissection 3D Model Kit	1	Each

Dissection Tools

United Scientific™ Dissection Kit

A set of 8 dissection instruments that includes a hard plastic case.

Includes:

- Dissecting scissors
- Dissecting forceps
- Scalpel with replaceable blade, no. 22
- Teasing needle, plastic handle, straight
- Teasing needle, plastic handle, curved
- Dropping pipet
- Transparent vinyl ruler, 6 in.
- T-Pins



Cat. No.	Description	Quantity	Unit of Measure
S111009***	Dissecting Instrument Set of 8 with Case	1	Each

United Scientific™ Dissecting Instruments

A set of 9 dissection instruments with vinyl pouch.

Includes:

- Probe, straight
- Probe, bent
- Scissors
- Dropper pipet
- Scalpel (2)
- Tissue forceps
- Tweezers
- Ruler
- Pouch



Cat. No.	Description	Quantity	Unit of Measure
S111010***	Economy Dissecting Instrument Set of 9	1	Each



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Eisco™ Dissecting Sets

Stainless steel instruments in case.

Economy Set (S14004):

- (1) Scissors
- (1) Forceps
- (1) Straight needle with wooden handle
- (1) Bent needle with wooden handle
- (1) Glass pipet with rubber dropper
- (1) Scalpel handle with sterile blade
- (1) 6 in. plastic ruler

Premium Set (S14005):

- (2) Scissors
- (2) Forceps
- (1) Probe & seeker
- (1) Scalpel handle with sterile blade
- (1) Straight needle with wooden handle

Advanced Set (S23633):

- (1) 4.5 in. Straight forceps
- (1) 4.5 in. Curved forceps
- (1) 5 in. Artery forceps
- (1) Flat forceps
- (1) 5 in. Bone cutter
- (1) 4.5 in. Scissors
- (1) 5.5 in. Scissors
- (1) 5.5 in. Straight needle
- (1) 5.5 in. Curved needle
- (1) 5.5 in. Probe & seeker
- (1) 6 in. Dental probe
- (1) #4 Scalpel handle with #23 sterile blade



Cat. No.	Description	Quantity	Unit of Measure
S14004	Economy Dissecting Set	1	Each
S14005	Premium Dissecting Set	1	Each
S23633	Advanced Dissecting Set	1	Each

Precision Dissection Kits with Goggles

The ideal instrument packages for dissection classes.

Features:

- Autoclavable, semi-hard, see-thru, slotted plastic case
- Fine quality tools
- Easy to carry
- Individual sections for each tool
- Safer to use for students and teachers
- Excellent for in-lab use and field work

Tools Included:

- Dissecting mall probe chrome plated
- Ruler, 6 in.
- Student dissecting forceps, 4.5 in.
- Dissecting iris scissors, 4.5 in.
- Dissecting scalpel with screw-lock blade
- Glass dropper
- Dissecting needle, straight, plastic handle
- (6) Dissecting T-Pins

Eyewear Included:

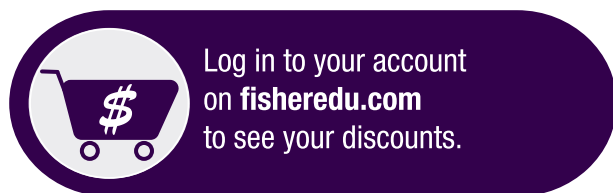
- Anti-scratch UV absorbing polycarbonate lens provide outstanding impact strength and optical clarity for rugged protection
- Provides 99.9%-UV protection
- Great wrap-around style with adjustable temples, providing a secure, comfortable fit
- Universal nose bridge prevents slipping and sliding
- Small sizes designed to fit a child or small faces are also available

COMPLIANCE: Meets ANSI Z87.1-2003 and ANSI + high impact standards

CERTIFICATION: CUL certified to meet CAN/CSA Z94.3



Cat. No.	Description	Quantity	Unit of Measure
S72132	Dissection Kit with Goggles	1	Each



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fisherbrand Dissection Kit with Black Zipper Case

Dissection kit for various applications.

- Zippered vinyl black case

Includes: Plastic ruler, dissection scalpel, glass dropper with rubber bulb, 4.5 in. scissors, 4.5 in. forceps, teasing needle with plastic handle, angular teasing needle with plastic handle

⚠️ ALERTS: Not for internal use



Cat. No.	Description	Quantity	Unit of Measure
12-000-151	7-Piece Kit	1	Each

Classroom Dissection Set

An ideal, cost-saving classroom dissection set for 20 or 40 students.

- Includes 20 each of the seven dissection tools for a 20-student class
- Can also be used for 40 students working in pairs



Cat. No.	Description	Quantity	Unit of Measure
S07040	Classroom Dissection Set	1	Each

Microdissection Forceps

Ideal for super-fine dissection applications and working under a microscope.

- Set of 5: includes 2 curved and 3 straight microdissection forceps
- Highly precise and extra fine tips to perform microdissection
- Stainless steel
- Transparent case



Cat. No.	Description	Quantity	Unit of Measure
S72112	Microdissection Forceps	1	Each

Microdissection Forceps

Ideal for working under a microscope.

- Features straight or curved narrow precision points to help access hard-to-reach areas during dissection
- Narrow precision points are excellent for precisely manipulating minuscule specimens under the microscope
- Premium quality stainless steel offers durability and reliability
- Length: 4.5 in.

Great for:

- Working under the microscope
- Watch makers application
- Splinter removal



Cat. No.	Description	Quantity	Unit of Measure
S72115	Long Narrow Points	1	Each
S72116	Tapered Fine Points	1	Each
S72117	Fine Curved Points	1	Each

Featherweight Entomology Forceps

Ideal for handling larvae or eggs without crushing them or specimens stored in vials.

- Bendable

Set of 2 (S72110) includes:

- 1 fine tip forceps
- 1 wide top forceps

Set of 5 (S72111) includes:

- 1 insect pinning forceps, surgical stainless steel, 4.5 in.
- 2 featherweight forceps: 1 narrow tip, 4.5 in., 1 broad tip, 4.25 in.
- 2 microdissection forceps: 1 long shank with very fine points, 4.5 in., 1 curved with very fine points, 4.5 in.



Cat. No.	Description	Quantity	Unit of Measure
S72110	Featherweight Entomology Forceps	1	Each
S72111	Entomology Forceps	1	Each
S72113	Narrow Point	1	Each
S72114	Broad Point	1	Each

Eisco™ Stainless Steel Forceps with Toothed Tips

Provide a tight, slip-resistant grip during delicate work.

- Made from high quality stainless steel
- Toothed tips provide a firm, slip-resistant grip
- Perfect for any science or home laboratory
- Designed for delicate work
- Reusable and washable
- Length: 4.5 in.



Cat. No.	Description	Quantity	Unit of Measure
S27475	Forceps Toothed Tips	1	Each

Dissecting Forceps with Fine Points

For delicate dissection.

- Made of stainless steel
- Can be used under the microscope
- Guide pin for matching of points
- Ridges for easy grip
- Length: 11.43 cm (4.5 in.)



Cat. No.	Description	Quantity	Unit of Measure
S08096	Dissecting Forceps with Fine Points	1	Each

fisherbrand Straight Medium Point Forceps with Guide Pin

Features a guide pin for perfect alignment.

- Straight serrated medium tip
- Finger serrations for added control
- Made of stainless steel
- Dimensions (L x W x H): 4.5 x 0.32 x 0.06 in. (115 mm x 8 mm x 1.5 mm)



Cat. No.	Description	Quantity	Unit of Measure
16-100-106	Straight Medium Forceps with Guide Pin	1	Each

Probe Seeker Angular Probe

Used when working with vessels, nerves, and muscles.

- Made from chrome plated steel
- Features a sharp point at one end and angular medium point on opposite side
- Length: 6 in.



Cat. No.	Description	Quantity	Unit of Measure
S08110	Probe Seeker Angular Probe	1	Each

Eisco™ Hand Microtome

Sturdy, user-friendly tool for providing slices of a variety of materials.

- Hand micrometer
- Replicate precise cuts as thin as 0.01 microns
- Top plate is 75 mm diameter
- External milled knob
- Clamping mechanism secures specimens of various sizes in place while cutting



WARRANTY: 1 year limited manufacturer

Cat. No.	Description	Quantity	Unit of Measure
S89496	Hand Microtome	1	Each

United Scientific™ Aluminum Dissecting Pan

Dissecting pans are stackable and made of durable aluminum.

- Stackable
- Made of durable aluminum
- Wax not included



Cat. No.	Description	Dimensions (L x W x H)	Quantity	Unit of Measure
S111020	Aluminum Dissecting Tray	11.25 x 7.5 x 1.5 in.	1	Each
S111021***	Large Aluminum Dissecting Tray	13 x 9.5 x 2 in.	1	Each

Eisco™ Stainless Steel Dissection Tray

Features four raised ridges to keep specimens in place.

- Dissection tray made out of high-quality stainless steel
- Four raised ridges inside tray help prevent specimens from sliding
- Tray depth measures 1.75 in.
- Great for classrooms



Cat. No.	Description	Dimensions (L x W x H)	Quantity	Unit of Measure
S27474	Dissection Tray	13 x 9 x 2 in.	1	Each

Eisco™ Wooden Dissecting Boards

Wooden dissecting boards made from softwood allow pins to be easily placed to hold specimens.

- High quality dissecting boards with raised borders on all four sides to contain specimens and supplies
- Made of softwood to allow pins (not included) to be easily placed to hold specimens
- Perfect for displaying insects or other specimens during dissection, or for display



WARRANTY: 1 year limited manufacturer

Cat. No.	Dimensions (L x W x H)	Quantity	Unit of Measure
S39752	10.3 x 8.3 x 1 in. (262 x 210 x 27 mm)	1	Each
S39754	22.1 x 15.4 x 1 in. (562 x 392 x 27 mm)	1	Each



United Scientific™ Dissecting Trays With Wax



Dissecting trays are made of durable aluminum and include a layer of black wax.

Cat. No.	Description	Dimensions (L x W x H)	Quantity	Unit of Measure
S80769	Large Aluminum Dissecting Tray with Wax	13 x 9.5 x 2 in.	1	Each
S111022***	Aluminum Dissecting Tray with Wax	11.25 x 7.5 x 1.5 in.	1	Each

Eisco™ Dissecting Tray

Used for dissection activities.

- Made of stainless steel
- Tray with wax liner



Cat. No.	Description	Dimensions (L x W)	Quantity	Unit of Measure
S23636	Dissecting Tray	30 x 20 cm	1	Each

Eisco™ Dissection Tray

Aluminum dissection tray with wax liner.

- Works great with premium dissection pins
- 1 in. thick wax liner can be easily melted for resurfacing
- High quality aluminum construction



Cat. No.	Dimensions (L x W x H)	Quantity	Unit of Measure
S14000	14 x 9 x 2 in. (35 x 24 x 5 cm)	1	Each

United Scientific™ Dissecting Pan Black Wax



For use with a variety of dissecting pans.

- Black wax for dissecting pans

Cat. No.	Weight	Quantity	Unit of Measure
S89560***	5 lb.	1	Each
S81061***	1 lb.	1	Each

United Scientific™ Insect Pins

Insect Pins for holding insect specimens in place.

- Steel pins are coated with a corrosion-resistant finish and have a yellow epoxy head

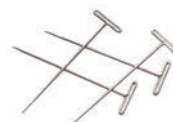


Cat. No.	Description	Quantity	Unit of Measure
S81080	Insect Pins	100	Pack

Eisco™ T-Pins

Nickel-plated dissecting pins.

- Nickel-plated
- 1.5 in.



Cat. No.	Description	Quantity	Unit of Measure
S99385	Nickel-plated T-pins.	100	Pack

Eisco™ Stainless Steel Probe and Seeker

Made of high quality stainless steel and features an angled blunt needle.

- Probe and seeker with blunt end needle
- Made from quality stainless steel
- Single piece probe is 5 in. long (127 mm)
- Great for experiments, dissections, and demonstrations

WARRANTY: 1 year limited manufacturer



Cat. No.	Description	Quantity	Unit of Measure
S29350	Stainless Steel Probe and Seeker	1	Each

Eisco™ Stainless Steel Bone Cutter

Features heavy duty construction, a return spring, and locking arm.

- Stainless steel bone cutter
- Heavy duty construction
- Features return spring and locking arm
- For educational use only
- Not for medical use, this item should never be used on humans or other living specimens



Cat. No.	Description	Quantity	Unit of Measure
S80805	Stainless Steel Bone Cutter	1	Each



Eisco™ Disposable Scalpel, Sterile

Single use, disposable plastic scalpel comes pre-sterilized in an individual packet.

- Disposable scalpel
- Durable, permanent fitted blades
- Packaged in an individual bag
- Pre-sterilized
- For educational use only
- Not for medical use, this item should never be used on humans or other living specimens
- Size #23



Cat. No.	Description	Quantity	Unit of Measure
S80807	Disposable Scalpel	1	Each

Disposable Scalpel

Machine-sharpened, razor-sharp, stainless-steel blade edge that lasts.

- Tapered handle can double as a section lifter, probe, or depressor
- A special safety tab covers the blade to prevent accidents, then snaps off for use
- Shipped in a sealed foil pouch to preserve sterility



Cat. No.	Description	Size	Quantity	Unit of Measure
S17800	Disposable Scalpel	#22	1	Each

Scalpel Handle with Blades

Comes with a 10-pack of No. 10 blades.

- Scalpel handle features black oxide coating for extra corrosion and rust resistance
- Length: 5 in.
- Ideal for dissection or wood carving



Cat. No.	Description	Quantity	Unit of Measure
S72156	Scalpel Handle and Blade Pack	1	Each

Eisco™ Scalpel Handles

Solid handles provide a good, firm grip during dissection.

- High-quality steel handles
- Slotted to accept blades



Cat. No.	Size	Length Overall	Quantity	Unit of Measure
S95937	#3	7.08 in. (18 cm)	1	Each

Eisco™ Stainless Steel Dissecting Scissors, Fine Point

Made from high quality, durable stainless steel.

- Features fine points for delicate work
- Closed shanks
- For educational use only
- Not for medical use, this item should never be used on humans or other living specimens
- Length (English): 5 in.



Cat. No.	Description	Tip Style	Quantity	Unit of Measure
S80799	Dissecting Scissors	Fine Points	1	Each

Eisco™ Stainless Steel Dissecting Scissors, Blunt End

Made from stainless steel with a blunt end and closed shanks.

- For educational use only
- Not for medical use, this item should never be used on humans or other living specimens



Cat. No.	Description	Tip Style	Quantity	Unit of Measure
S80803	Dissecting Scissors	Blunt End	1	Each

Fisher Science Education™ Plastic Zip Bags for Science Kits

For use with multiple science projects.

- Volume: 1 L
- Dimensions (L x W): 7 x 8 in., 2 mil



Cat. No.	Description	Quantity	Unit of Measure
S05254	Plastic Zip Bags for Science Kits	100	Pack

Prepared Slides

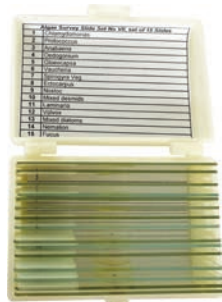
United Scientific™ Algae Survey Slide Set

A set of 15 slides specific to the study of algae.

- Prepared microscope slides in a plastic case

Set of 15 includes:

- Chlamydomonas
- Protococcus
- Anabaena
- Oedogonium
- Gloeocapsa
- Vaucheria
- Spirogyra Veg
- Ectocarpus
- Nostoc
- Mixed desmids
- Laminaria
- Volvox
- Mixed diatoms
- Nematium
- Fucus



NEW

Cat. No.	Contains	Quantity	Unit of Measure
S89554***	15 slides	1	Each

United Scientific™ Bacteria Slide Set

A set of 12 slides specific to the study of bacteria.

- Glass prepared microscope slides, supplied in a plastic case

Set of 12 includes:

- Mixed bacteria, bacilli, cocci and spirillum
- Mycobacterium tuberculosis, in tissue
- Cocci, Gram positive and negative
- Rhizobium, in root nodule
- Bacilli, Gram positive and negative
- Vibrio
- Escherichia coli
- Spirillum
- Bacillus subtilis
- Staphylococcus epidermidis
- Bacillus megaterium
- Streptococcus lactis



NEW

Cat. No.	Contains	Quantity	Unit of Measure
S89555***	12 slides	1	Each

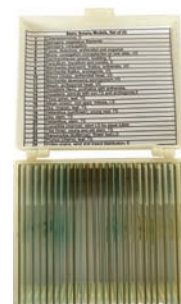
United Scientific™ Basic Botany Models Slide Set

A set of 25 slides specific to the study of botany.

- Glass prepared microscope slides, supplied in a plastic case

Set of 25 includes:

- Chlamydomonas, E
- Spirogyra, vegetative filaments, E
- Spirogyra, conjugation, E
- Fucus, dioecious, antheridial and oogonial
- Mucor, conjugation conceptacles on one slide, VS
- Saccharomyces (yeast), budding, E
- Penicillium, mycelium and conidia, E
- Marchantia (liverwort), thallus, antheridia, VS
- Marchantia thallus, archegonia, VS
- Mnium (moss), antheridial head, VS
- Marchantia developing sporogonium, VS
- Mnium, archegonial head, VS
- Dryopteris (fern), prothallus with antheridia
- Dryopteris, pinnule with sori, TS and archegonia, E
- Pinus (pine), leaf, TS
- Allium (onion), root apex, mitosis, LS
- Zea, (maize), leaf, TS
- Helianthus (sunflower), young root, TS
- Zea, stem, TS
- Helianthus, stem, TS
- Cucurbita (marrow), stem LS for sieve tubes
- Tilia (lime), young and old stem, TS
- Ranunculus (buttercup), flower bud, LS
- Prunus (cherry), leaf, TS
- Pollen grains, wind and insect distribution, E



NEW

Cat. No.	Contains	Quantity	Unit of Measure
S89556***	25 slides	1	Each



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United Scientific™ Histology Slide Set

A set of 25 slides specific to the study of histology.

- Glass prepared microscope slides, supplied in a plastic case

Set of 25 includes:

- Cerebellum, section
- Ileum, section
- Spinal cord, TS
- Duodenum, TS
- Nerve, TS and LS
- Appendix, TS
- Artery and vein, TS
- Colon, VS
- Cardiac muscle, section
- Pancreas, section
- Lymph node, section
- Liver, section
- Spleen, section
- Kidney, section
- Scalp, VS
- Ovary, section
- Skin, heavily pigmented, section
- Uterus, section
- Striated muscle, section
- Cervix, section
- Mammary gland, section
- Testis, section
- Oesophagus, section
- Thyroid gland, section
- Stomach, fundic portion, section



Cat. No.	Contains	Quantity	Unit of Measure
S89557***	25 slides	1	Each

United Scientific™ Basic Plant Anatomy Slide Set

A set of 20 slides specific to the study of plant anatomy.

- Glass prepared microscope slides, supplied in a plastic case

Set of 20 includes

- Helianthus (sunflower), young
- Prunus (cherry), leaf, TS and old root
- Monocot, epidermis, E. for stomata
- Vicia (bean), young root, TS
- Vicia, root apex, LS
- Psamma (marram grass), leaf, TS
- Zea (maize), stem, TS and LS
- Lilium, anther, TS
- Cucurbita (marrow), stem, TS and LS
- Lilium, ovary, TS and LS
- Helianthus, stem, bundles, TS
- Lilium, ovary, various stages, TS
- Helianthus, old stem, TS and LS
- Capsella, mature cotyledon stage, LS
- Tilia (lime), young and old stem, TS
- Stigma
- Tilia, old stem, RLS
- Pollen grains
- Dicotyledon stem apex, LS
- Zea seed, LS



Cat. No.	Contains	Quantity	Unit of Measure
S89558***	20 slides	1	Each

United Scientific™ Protozoa & Algae Slide Set

A set of 20 slides specific to the study of protozoa and algae.

- Glass prepared microscope slides, supplied in a plastic case

Set of 20 includes

- Amoeba, E
- Mixed foraminifera
- Mixed radiolaria
- Euglena, E
- Trypanosoma in blood smear
- Plasmodium sp. (malaria) in human blood
- Paramecium, E
- Paramecium showing conjugation
- Vorticella, E
- Chlamydomonas, E
- Pandorina, E
- Volvox, with daughter colonies, E
- Nostoc, filaments with heterocysts, E
- Cladophora, E
- Chlorella, E
- Spirogyra, vegetative filaments, E
- Spirogyra, conjugation, E
- Desmids, mixed species, E
- Diatoms, mixed species, E
- Paramecium fission



Cat. No.	Contains	Quantity	Unit of Measure
S89559***	20 slides	1	Each

United Scientific™ Basic Prepared Slide Set

Glass prepared microscope slides, supplied in a wooden case.

Set of 25 slides includes:

- Mitosis in plants, cs
- Pollen grains, wm
- Amoeba, wm
- Yeast cells, wm
- Green Algae, wm
- Typed letter "e" on paper
- Tapeworm, ts
- Silk fabric, wm
- Lily leaf, vs
- Mammal lung, ts
- Meiosis in animals
- Aves feather, wm
- Lily stamen, ts
- Mammal hair, wm
- Mosquito mouth parts, wm
- Housefly mouth parts, wm
- Frog blood smear
- Human blood smear
- Onion cells, wm
- Hibiscus stem, ts
- Wool fabric, wm
- Fish scale, wm
- Skeletal muscle, wm
- Herbaceous stem, young, ts
- Skin cells, vs



Cat. No.	Contains	Quantity	Unit of Measure
S96420	25 slides	1	Each



United Scientific™ Prepared General Biology Slides

Set of 25 general biology slides comes with a case for easy storage and retrieval.

Includes:

- Amoeba proteus, wm
- Hydra, wm
- Earthworm, cs of posterior
- Daphnia and cyclops, wm
- Housefly head with mouthparts, wm
- Housefly leg with clinging pads
- Mouth smear, squamous epithelium
- Striated muscle, ls
- Human blood smear
- Bacteria, smear from mouth
- Diatoms, mixed, wm
- Spirogyra, vegetative filaments, wm
- Aspergillus, wm
- Moss stem with leaves, wm
- Buttercup root, cs
- Corn stem, cs
- Lily anthers, cs
- Lily ovary, cs
- Onion epidermis, wm
- Onion root tip, ls, mitosis
- Human scalp, vertical sections
- Compact bone, cs
- Sunflower stem, cs
- Lilac leaf, cs
- Honeybee anterior and posterior wing



Cat. No.	Contains	Quantity	Unit of Measure
S96419	25 slides	1	Each

United Scientific™ Prepared Microscope Slide Set

Prepared microscope slides featuring 24 different subject areas.

- Recommended for elementary through high schools
 - Set of 100
 - Dimensions: 9 x 8 x 2 in.
 - Shipping weight 2.50 lb.
- Set includes slides depicting:**
- Protozoa
 - Porifera
 - Coelenterata
 - Platyhelminthes
 - Annelida
 - Anthropoda
 - Mollusca
 - Echinodermata
 - Pisces
 - Reptila
 - Aves
 - Mammalia
 - Development
 - Bacteria
 - Fungi
 - Algae
 - Pteridophyta
 - Cells
 - Leaves
 - Stem
 - Root
 - Reproductive organs
 - Cell contents
 - Vascular systems

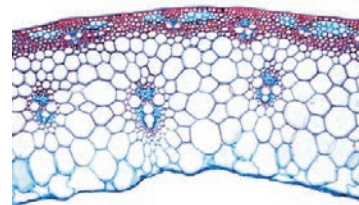


Cat. No.	Contains	Quantity	Unit of Measure
S90328	24 slides	1	Each

Angiospermae Stems Slide Set

20 microscope slides.

- 1(c). Canna, t.s. of typical monocot stem with scattered bundles
- 2(f). Aristolochia, t.s. of one year, two years stem and older stem, all 3 in on slide
- 3(e). Dicot and monocot stem, t.s. of Helianthus and Canna
- 4(e). Dicot and monocot stem, t.s. of Ranunculus and Zea
- 5(e). Tilia, lime, two t.s. of stems, first year and two years
- 6(d). Fagus silvatica, beech, three sections of wood, t.s., r.l.s., t.l.s.
- 7(d). Fraxinus excelsior, ash, three sections of wood, t.s., r.l.s., t.l.s.
- 8(c). Quercus, oak, t.s. of stem showing cambium and bark
- 9(c). Sambucus, elder, t.s. of bark showing lenticells
- 10(c). Linum, flax, t.s. of stem showing husk fibres
- 11(b). Linum, flax, isolated husk fibres, w.m.
- 12(d). Ranunculus, l.s. of herbaceous stem
- 13(d). Cucurbita pepo, l.s. of stem with sieve tubes
- 14(d). Sieve plates in top view, t.s. of Cucurbita stem
- 15(c). Lamium, t.s. of square stem, collenchyma
- 16(c). Secale, rye, t.s. of typical grass stem
- 17(c). Nymphaea, water lily, t.s. of aquatic stem, spicular cells
- 18(c). Hippuris, t.s. of typical aquatic stem with large central pith
- 19(d). Urtica, nettle, stinging hairs with poison ducts
- 20(c). Solanum tuberosum, potato, t.s. of tuber with starch grains and cork



Cat. No.	Description	Quantity	Unit of Measure
S95057L	Angiospermae Stems	20	Pack



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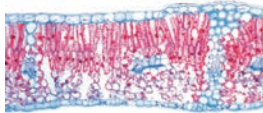
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Angiospermae Leaves Slide Set

15 microscope slides.

- 1(d). Elodea, l.s. of stem tip showing apical meristem and origin of leaves
- 2(d). Leaves, monocot and dicot, Zea and Ranunculus, t.s.
- 3(c). Syringa, lilac, t.s. of typical dicot leaf
- 4(c). Iris, typical isobilateral leaf t.s.
- 5(c). Eucalyptus, a bifacial foliage leaf with schizogenous oil glands t.s.
- 6(d). Fagus, beech, t.s. of sun and shade leaves on one slide
- 7(c). Calluna, ling, t.s. of rolled leaf showing sunken stomata
- 8(c). Nerium oleander, t.s. of leaf showing sunken stomatal pits lined with protective hairs
- 9(c). Ficus elastica, rubber plant, t.s. of leaf showing cystoliths
- 10(c). Elodea, t.s. of leaf showing the simple structure of an aquatic leaf
- 11(c). Tulipa, tulip, epidermis w.m. showing stomata
- 12(d). Aesculus, t.s. of leaf bud with squama and embedded folded leaves
- 13(d). Drosera, sundew, w.m. of leaf with glandular hairs
- 14(d). Nepenthes, t.s. of pitcher with glands
- 15(d). Utricularia, bladderwort, w.m. of bladder

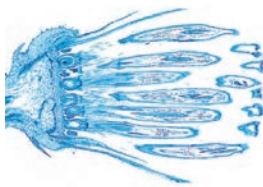


Cat. No.	Description	Quantity	Unit of Measure
S95058L	Angiospermae Leaves	15	Pack

Angiospermae Flowers Slide Set

15 microscope slides.

- 1(e). Zea and Ranunculus, t.s. of monocot and dicot flowers
- 2(d). Bellis, l.s. of composite flower bud
- 3(d). Taraxacum, dandelion, t.s. of composite flower bud
- 4(d). Papaver, poppy, t.s. of flower bud with parietal placentation
- 5(d). Cheirantus, wallflower, t.s. of flower bud with marginal-parietal placentation
- 6(d). Solanum, potato, t.s. of ovary with marginal-central placentation
- 7(d). Prunus avium, cherry, flower bud with perigynous ovary l.s.
- 8(d). Pyrus malus, apple, flower bud with hypogynous ovary l.s.
- 9(e). Arum maculatum, flower bud, t.s. showing ovary
- 10(d). Lilium, ovary t.s., showing arrangement of ovules
- 11(d). Lilium, anther t.s. showing pollen chambers and pollen grains
- 12(e). Lilium, anther t.s., early prophase of meiosis
- 13(e). Stigma of Eschscholtzia, w.m. showing penetrating pollen
- 14(b). Pollen of Corylus, hazelnut, w.m.
- 15(c). Pollen types, w.m. of a great variety of mixed pollen

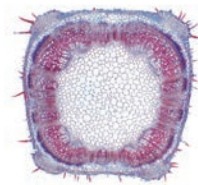


Cat. No.	Description	Quantity	Unit of Measure
S95059L	Angiospermae Flowers	15	Pack

Arrangement and Types of Vascular Packages Slide Set

13 microscope slides.

- 1(d). Protostele. Psilotum, stem t.s.
- 2(d). Actinostele. Lycopodium, stem t.s.
- 3(d). Polystele. Pteridium, rhizome t.s. concentric bundles with inner xylem
- 4(d). Ectophloic siphonostele. Osmunda, rhizome t.s.
- 5(d). Amphiphloic siphonostele. Adiantum, rhizome t.s.
- 6(d). Dictyostele. Polypodium, rhizome t.s.
- 7(d). Eustele. Ranunculus, stem t.s., open collateral bundles
- 8(d). Eustele. Lamium, stem t.s.
- 9(d). Eustele. Cucurbita pepo, stem t.s., bicollateral bundles
- 10(d). Atactostele. Zea mays, stem t.s., closed collateral bundles
- 11(d). Arrangement of bundles similar to atactostele in a dicot plant. Podophyllum, stem t.s.
- 12(d). Concentric vascular bundles with outer xylem. Convallaria, rhizome t.s.
- 13(d). Radial concentric vascular bundle. Ranunculus, root t.s.

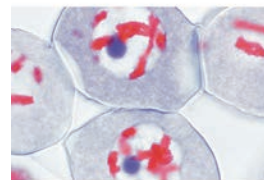


Cat. No.	Description	Quantity	Unit of Measure
S95061L	Vascular	13	Pack

Plant Cell Slide Set

12 microscope slides.

- 1(c). Epidermis of *allium* (onion), w.m. showing simple plant cells with cell walls, nuclei and cytoplasm
- 2(d). Root tips of *allium cepa* l.s. showing cell division (mitosis) in all stages
- 3(e). Pollen mother cells of *lilium*. Prophase of first maturation division (meiosis)
- 4(f). Pollen mother cells of *lilium*. Metaphase and anaphase of first maturation division
- 5(c). Wood of *tilia* macerated and w.m.
- 6(d). Fruit of *pyrus* (pear) t.s. showing stone cells
- 7(c). Tuber of *solanum* (potato) t.s. shows cork and starch grains
- 8(d). *Cucurbita pepo* (pumpkin) l.s. of stem showing vascular bundles with sieve tubes, spiral and annular vessels
- 9(c). *Ricinus endosperm* t.s. showing aleurone grains
- 10(d). Anthers of *lilium* (lily), t.s. pollen sacs and pollen grains
- 11(d). Ovary of *lilium* (lily), t.s. arrangement of ovules and embryosac
- 12(e). *Spirogyra* showing conjugation stages and zygotes

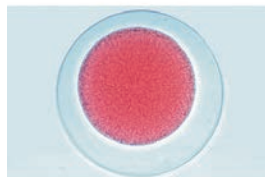


Cat. No.	Description	Quantity	Unit of Measure
S95063L	Plant Cell	12	Pack

Sea Urchin Embryology Slide Set

12 microscope slides.

- 1(d). Sea urchin, unfertilized eggs
- 2(d). Sea urchin, fertilized eggs
- 3(d). Sea urchin, two cells
- 4(d). Sea urchin, four cells
- 5(d). Sea urchin, eight cells
- 6(d). Sea urchin, sixteen cells
- 7(d). Sea urchin, thirty-two cells
- 8(d). Sea urchin, morula
- 9(d). Sea urchin, blastula
- 10(d). Sea urchin, blastula, beginning gastrulation
- 11(d). Sea urchin, blastula, progressive gastrulation
- 12(d). Sea urchin, pluteus larva



Cat. No.	Description	Quantity	Unit of Measure
S95064L	Sea Urchin	12	Pack

Frog Embryology Slide Set

10 microscope slides.

- Frog, morula, l.s. with macro- and micromeres
- Frog, blastula. l.s. shows blastocoel
- Frog, gastrula, sagittal l.s. shows germ layers, dorsal lip, yolk plug
- Frog, neurula, t.s. showing primordium of notochord, entoderm with primary intestinal cavity
- Frog, early tail bud stage, t.s. with neural tube, notochord
- Frog, early tail bud stage, sagittal l.s. with primordium of brain, intestine, segmentation of mesoderm
- Frog, hatching stage, t.s. through region of head or gills
- Frog, hatching stage, t.s. through region of midbody
- Frog, young tadpole, t.s. through head
- Frog, young tadpole, t.s. through thorax or abdomen

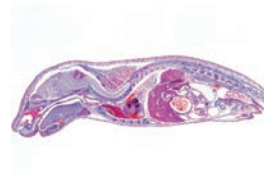


Cat. No.	Description	Quantity	Unit of Measure
S95066L	Frog Embryo	10	Pack

Pig Embryology Slide Set

10 microscope slides.

- 1(g). 4-6 mm, t.s.
- 2(g). 7-9 mm, sagittal l.s.
- 3(f). 11-12 mm, t.s. through head
- 4(f). 11-12 mm, t.s. through abdomen
- 5(f). 15 mm, t.s. through head
- 6(f). 15 mm, t.s. through thorax
- 7(f). 15 mm, t.s. through abdomen
- 8(g). 15 mm, sagittal l.s.
- 9(g). 20-25 mm, sagittal l.s.
- 10(g). 20-25 mm, frontal l.s.



Cat. No.	Description	Quantity	Unit of Measure
S95068L	Pig Embryo	10	Pack

Custom Biology Glass Slide Set

This set arrives with each slide clearly labeled and stored in a hard plastic case.

This glass slide set includes slides of the following:

- Corn Root Tip
- Euglenophyta cell
- Corn leaf
- Amoeba
- Germinating Pollen
- Volvox
- Human Blood Smear
- Paramecium
- Hyaline Cartilage
- Yeast
- Marrow
- Penicillium
- Bone transverse grinding sec
- Mushroom Coprinus
- Nerve Cell
- Hydra
- Skeleton Muscle
- Water Flea
- Mitosis of Plant Cell (Onion)
- Waterweed Leaf Cell
- Mitosis of Animal Cell
- Human Cheek Cells
- Blue algae



Cat. No.	Contains	Quantity	Unit of Measure
S00677	23 slides	1	Each

Bacteria Glass Slide Set

This set arrives with each slide clearly labeled and stored in a corrugated telescope box with a slide protected insert.

Bacteria Glass Slide Set Titles:

- Pseudomonas aeruginosa
- Escherichia Coli
- Rhizobium radicola
- Bacterium brasicae fermentatae
- Neisseria gonorrhoeae
- Bacillus subtilis
- Micobacterium tuberculosis
- Streptococcus
- Dysentery bacilli
- Corynebacterium diphtheria
- Vibrio verolinensis
- Bacteria in buccal cavity



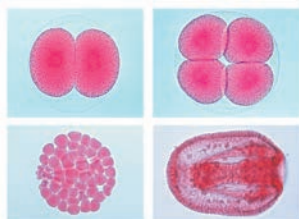
Cat. No.	Contains	Quantity	Unit of Measure
S00670	12 slides	1	Each

The Sea Urchin Embryology (Echinus miliaris)

5200 The Sea Urchin Embryology (Echinus miliaris).

Contains:

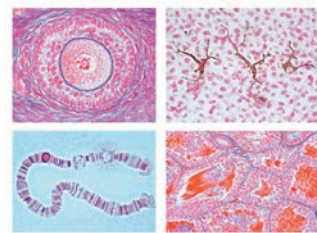
1. Sea urchin, unfertilized eggs
2. Sea urchin, fertilized eggs
3. Sea urchin, two cells
4. Sea urchin, four cells
5. Sea urchin, eight cells
6. Sea urchin, sixteen cells
7. Sea urchin, thirty-two cells
8. Sea urchin, morula
9. Sea urchin, blastula
10. Sea urchin, blastula, beginning gastrulation
11. Sea urchin, blastula, progressive gastrulation
12. Sea urchin, pluteus larva



Cat. No.	Contains	Quantity	Unit of Measure
S02815	12 slides	1	Pack

Animal Cell Set

Set contains 12 animal cytology slides and a brochure, with a range of tissue types that are useful for classroom microscope study.



Includes:

- Squamous epithelium, isolated cells from human mouth. Nuclei and cytoplasm are shown.
- Striated muscle l.s. showing nuclei, striations, myofibrils
- Compact bone and hyaline cartilage t.s., two sections on one slide for comparison
- Nerve fibres isolated, fixed and stained by osmic acid to show myelinated sheaths and Ranvier's nodes
- Liver of Salamandra t.s., showing simple animal cells with cellular membranes, nuclei, and cytoplasm
- Kidney of mouse, t.s. vital stained with trypanblue to demonstrate the storage of epithelial cells
- Ovary of cat, t.s. showing primary, secondary, and Graafian follicles
- Testis of frog, t.s. showing spermatogenesis: spermatogonia, spermatocytes, spermatids, and mature spermatozoa
- Salamandra larva, t.s. of skin and other organs selected to show cell division (mitosis) in various stages
- Uteri of Ascaris megalocephala, t.s. iron hematoxyline stained to show details of meiosis with chromosomes and nuclear spindles
- Salivary gland of Chironomus larva: Giant chromosomes showing large chromomeres, Stained for DNA after Feulgen
- Ova from Psammechinus (sea urchin): Unfertilized ova, fertilized ova, early cleavage stages

Cat. No.	Contains	Quantity	Unit of Measure
S5000	12 slides	1	Each



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United Scientific™ Biology Prepared Slide Set



Set offers a variety of different prepared slides for classroom use.

- A convenient assortment of prepared microscope slides includes 12 samples affixed to quality glass.
- Plastic case included.
- Set includes:
 - Bacteria, smear from mouth
 - Onion root tip, ls, mitosis
 - Amoeba proteus, wm
 - Monocot/Dicot stem, cs
 - Paramecium, wm
 - Lilac leaf, cs
 - Spirogyra, vegetative filaments, wm
 - Hydra, wm
 - Bread molds, sexual, wm
 - Earthworm, cs of posterior
 - Buttercup root, cs
 - Human blood smear



Cat. No.	Contains	Quantity	Unit of Measure
S15673***	12 slides	1	Each

United Scientific™ Biology Prepared Slide Set



Set offers a variety of different prepared slides for classroom use.

- Convenient assortment of prepared microscope slides includes 13 samples affixed to quality glass.
- Wooden case included.
- Set includes:
 - Involuntary smooth muscle (domesticated cat)
 - Lily anthers, cs
 - Lilac leaf, cs
 - Monocot/Dicot stem
 - Multi polar neurons (domesticated pig)
 - Letter 'E'
 - Hydra, budding, wm
 - Amoeba
 - Paramecium
 - Euglena
 - Onion root tip mitosis
 - Horse ascaris egg, sec (domesticated horse)
 - Skeletal muscle, cs, ls (domesticated dog)



Cat. No.	Contains	Quantity	Unit of Measure
S15702***	13 slides	1	Each

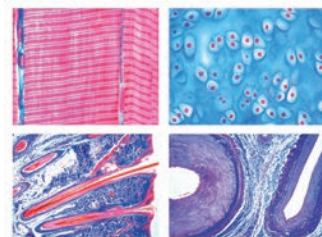
Histology of Mammalia, Basic Set

Precision slides are mounted by expert microtechnicians.

Created from fresh, top-quality specimens and expertly fixed, stained and hand-mounted by specialists in the field. Ultrasonically cleaned to eliminate striations and bubbles.

25 microscope slides:

- Squamous epithelium, isolated cells
- Fibrous connective tissue
- Adipose tissue, fat stained
- Hyaline cartilage, c.s.
- Compact bone, c.s.
- Striated muscle, l.s.
- Smooth muscle, c.s. and l.s.
- Blood smear, human
- Artery, c.s.
- Vein, c.s.
- Lung, c.s.
- Pancreas with islets of Langerhans, c.s.



- Tongue, c.s.
- Stomach, fundic region, c.s.
- Small intestine, c.s.
- Liver, c.s.
- Kidney, c.s.
- Ovary with developing follicles, c.s.
- Testis with spermatogenesis, c.s.
- Cerebrum, c.s.
- Cerebellum, c.s.
- Spinal cord, c.s.
- Nerve fibers isolated
- Motor nerve cells, smear from spinal cord
- Scalp, human, l.s. of hair follicles

Cat. No.	Contains	Quantity	Unit of Measure
S2400	25 slides	1	Pack



CAREER TECHNICAL EDUCATION
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Invertebrata Microscope Slide, Elementary Set

An elementary set of 25 invertebrata microscope slides.

- The most important representatives of Protozoa, Sponges, Coelenterata, Vermes, Arthropoda, Insecta Mollusca, Echinodermata, and Acrania.
- Amoeba proteus w.m.
- Euglena a common flagellate with eye spot
- Paramecium a common ciliate
- Sycon marine sponge t.s. of body
- Hydra extended specimen w.m.
- Dicrocoelium lanceolatum sheep liver fluke w.m.
- Planaria t.s. of body
- Taenia saginata tapeworm proglottids in different stages t.s.
- Trichinella spiralis l.s. of muscle with encysted larvae
- Lumbricus earthworm t.s. of body in region of typhlosole
- Daphnia water flea w.m.
- Cyclops copepod w.m.
- Spider leg with comb w.m.
- Spider spinneret w.m.
- Musca domestica house fly head and mouth parts w.m.
- Periplaneta cockroach biting mouth parts w.m.
- Apis mellifica honey bee mouth parts of worker w.m.
- Musca domestica house fly leg with pulvilli w.m.
- Apis mellifica wings w.m.
- Trachea from insect w.m. 21



NEW

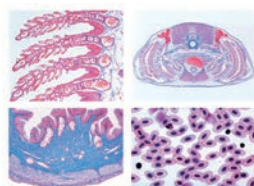
Cat. No.	Contains	Classification	Quantity	Unit of Measure
S139707	25 slides	Zoology	1	Pack

Histology of Vertebrata Microscope Slide Set

25 microscope slides of the histology of Vertebrata, excluding Mammalia.

- Fishes, Amphibians, Reptiles, and Birds.

NEW

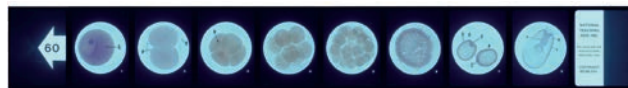


Cat. No.	Contains	Classification	Quantity	Unit of Measure
S139709	25 slides	Histology	1	Pack

Microslide™ Cleavage

This Microslide™ Cleavage consists of 8 images photographed through a microscope called photomicrographs. Arrows and call outs help the student locate important features. It is accompanied by a detailed lesson plan designed to stimulate, inform and question students about the topic under study.

NEW



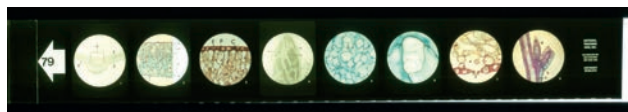
- Image titles on Microslide:
 1. One-Cell Stage (320x)
 2. Two-Cell Stage (320x)
 3. Four-Cell Stage (320x)
 4. Eight-Cell Stage (320x)
 5. A Mass of Cells (320x)
 6. The Blastula (320x)
 7. Early Gastrula (160x)
 8. Late Gastrula (240x)
- Comes with a Extensive Lesson Plan with Pocket to Store Microslide.
- Reproducible Worksheet and Storage Box with a Purchase of 15.
- Grades 9 to 12

Cat. No.	Description	Quantity	Unit of Measure
S00483	Microslide – Cleavage	1	Each

Microslide™ The Leaf of a Flowering Plant

This Microslide™ The Leaf of a Flowering Plant consists of 8 images photographed through a microscope called photomicrographs. Arrows and call outs help the student locate important features. With a detailed lesson plan designed to stimulate, inform and question students about the topic.

NEW



- Image titles on Microslide:
 1. Lilac Leaf - x.s. Stained (60x)
 2. Working layers of the Leaf
 3. Upper Epidermis and Palisades
 4. Chloroplast - Electron Micrograph (30,000x)
 5. Epidermis - Surface View - Stained (150x)
 6. Stomate - Surface View - Stained (430x)
 7. Air Space and Spongy Layer x.s. - Stained (480x)
 8. Abscissions Layer - l.s. - Stained (12x)
- Lesson Plan with Pocket to store Microslide
- Reproducible Worksheet and Storage Box with a purchase of 15
- Grades 6 to 12

Cat. No.	Description	Quantity	Unit of Measure
S00486	The Leaf of a Flowering Plant	1	Each

Microslide™ The Cell Membrane



This Microslide™ The Cell Membrane consists of 8 images photographed through a microscope called photomicrographs. Arrows and call outs help the student locate important features. With a detailed lesson plan designed to stimulate, inform and question students about the topic.



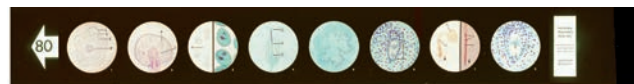
- Image titles on Microslide:
 1. Epithelial Cells (900x)
 2. Cell Membrane (3500x)
 3. Paramecium-(dying) (200x)
 4. Cilia -(Locomotion) (1500x)
 5. Blood Cells - (Structures) (26x)
 6. Blood cells -(functions) (600x)
 7. White Blood cell-(Recognition) (800x)
 8. Onion Skin Cells (100x)
- Lesson Plan with Pocket to store Microslide
- Reproducible Worksheet and Storage Box with a purchase of 15
- Grades 1 to 8

Cat. No.	Description	Quantity	Unit of Measure
S00498	The Cell Membrane	1	Each

Microslide™ Flower of a Flowering Plant



This Microslide™ The Flower of a Flowering Plant consists of 8 images photographed through a microscope called photomicrographs. Arrows and call outs help the student locate important features. With a detailed lesson plan designed to stimulate inform and question students about the topic.



- Image titles on Microslide:
 1. Complete Flower (12)
 2. Stamens (18x)
 3. Anther (18x)
 4. Pistil (5x)
 5. Ovary (15x)
 6. Ovule (200x)
 7. Pollen Grain (480x)
 8. Double Fertilization - x.s. - Stained (420x)
- Comes with an Extensive Lesson Plan with a Pocket to store the Microscope.
- Reproducible Worksheet and Storage Box with a purchase of 15.
- Grades 6 to 12

Cat. No.	Description	Quantity	Unit of Measure
S00503	Microslide – Flower of a Flowering Plant	1	Each

Animal Science

Deluxe Owl Pellet Dissection Lab Activity



Students can learn the concepts of food webs and food chains while identifying the small animals that are prey for the owls.

- Owls have a specialized digestive tract which helps them expel the indigestible parts of their prey in pellet form
- The pellets are heat sterilized and individually wrapped

Kit Includes:

- 15 owl pellets
- 30 dissecting probes
- 15 forceps
- 15 plastic rulers
- 15 hand magnifiers
- 60 nitrile gloves

Cat. No.	Description	Quantity	Unit of Measure
S29557	Deluxe Owl Pellet Dissection Activity	1	Each

Barn Owl Pellets

Owl Pellets are a natural educational tool that are useful in introducing students to the nature of food chains, skeletal anatomy, and the identification of prey taken by the barn owl. Consisting mainly of undigested hair and bones, owl pellets are fascinating to investigate and analyze.



- Grade A quality
- Sold in packs of 10

Cat. No.	Description	Quantity	Unit of Measure
S19366NB	Barn Owl Pellets	10	Pack

Kemtec™ Owl Pellet Kit

Students discover what an owl had to eat by examining the owl pellet.

- Explore feeding habits of owls and their place in food chain
- Identify skeletal parts of small mammals, study the interrelatedness of food chains, and identify habitats and ecosystem variables
- Includes bone charts for identifying bones and assembling them into skeletons to evaluate an owl's food source
- May be used by older students to study intricate balance and relationships between trophic levels in food web, energy flow and population densities
- Includes 12 owl pellets and all dissection materials
- Class size: 24 students
- Grades K to 12

⚠️ ALERTS: CHOKING HAZARD. Small parts. Not for children under 3 yrs.

Cat. No.	Description	Quantity	Unit of Measure
S02094	Owl Pellet Kit	1	Each
S02095	Kit Refill, Includes 12 Owl Pellets	1	Each



AquaPhoenix Scientific™ Owl Pellet

Sterilized owl pellet individually wrapped in foil.

- Approximately 1.5 to 2 in.
- Individually wrapped in foil
- Sterilized
- Includes: Single Pellet

Cat. No.	Description	Quantity	Unit of Measure
S00216	Owl Pellet	1	Each



Eisco™ Simulated Owl Pellet

Dive into the owl's food chain and explore predator-prey interactions with these simulated owl pellets.

- Classroom Experience: Simulated owl pellets provide an enriching learning experience. Each pellet includes imitated bones and fur from vole prey.
- Clean / Safe Alternative: Simulated owl pellets provide a cleaner alternative for classroom dissections, eliminating concerns associated with handling real owl pellets.
- Food Chain: Unlock the secrets of the food chain with our simulated owl pellets, providing an educational exploration of predator-prey interactions.
- Sizing: Each pellet is constructed into a 1 in. to 1 and 1/2 in. size for easy dissecting.

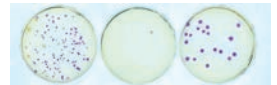


Cat. No.	Description	Quantity	Unit of Measure
S80046	Simulated Owl Pellet, Vole Remains	1	Each
S80047	Simulated Owl Pellet, Bird Remains	1	Each
S80048	Simulated Owl Pellet, Mouse Remains	1	Each

Edvotek™ Battling Bacteria: Ecosystem Dynamics in a Petri Dish Kit

Students create their own microbial ecosystems to investigate the dynamics of competition and abiotic/biotic change on community composition. By using bacteria with short generation times students can observe, test, and collect their own data on key ecological phenomena in a single week!

- Storage: some components require refrigerator and freezer storage
- Complete in 1 week
- For 10 lab groups
- Grade 9 to Undergraduate



Cat. No.	Description	Quantity	Unit of Measure
S27558	Battling Bacteria Ecosystem Kit	1	Each

Microslide™ Animal Tissues (Epithelium & Cartilage)

Set of 8 related 35 mm images photographed through a microscope.

- Arrows and call outs help the student locate important features
- Each Microslide is accompanied by a detailed lesson plan designed to stimulate, inform and question students
- Each Microslide is stored in its own pocket

Set of 15 Microslides includes:

- The trachea (50x)
- The trachea (180x)
- Ciliated columnar epithelium (300)
- Simple cuboidal epithelium (500x)
- Cartilage (180x)
- Esophagus epithelium (340x)
- Simple squamous epithelium (330x)
- The urinary bladder (125x)

Cat. No.	Description	Quantity	Unit of Measure
S81686	Animal Tissues	1	Pack



Eisco™ Animal Cell Model

This enlarged animal cell model demonstrates the delicate structure of a typical animal cell.

- Enlarged 20,000 times
- Includes organelles like the nucleus, endoplasmic reticulum, mitochondria, ribosomes respectively polysomes, and Golgi apparatus
- Also demonstrates centrioles, lysosomes and fat vacuoles
- The presentation of the process of extrusion of a Golgi vesicle and pinocytic signs shown by the cell dynamics
- Vividly hand painted with eco safe paint
- Constructed of durable polyvinyl chloride (PVC) plastic which is corrosion-resistant, lightweight, and has high strength
- Resists reactions with acids, gasoline, alcohol, and hydrocarbons
- Size: 15 x 9.5 x 18 in. (38 x 24 x 46 cm)



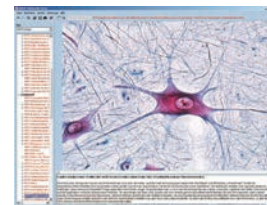
Cat. No.	Description	Quantity	Unit of Measure
S27897	Animal Cell Model	1	Each

The Wonder of the Animal Cell

Study of the basic element of all living organisms.

Some of the topics covered include:

- Unicellular organisms
- Multicellular organisms
- Specialized cells: muscle, glandular, sensory, nerve, connective tissue, red blood, white blood, sex
- Multiplication of cells
- Formation of tissue and organs



Cat. No.	Description	Quantity	Unit of Measure
S94695	The Wonder of the Animal Cell	1	Each

Eisco™ Animal Cell Model

Three-dimensional model showing electron microscopic structure.

- Demonstrates nucleus, nucleolus, endoplasmic reticulum, mitochondria, ribosomes, polysomes, and Golgi apparatus with centrioles, lysosomes and vacuoles
- Mounted on base for support
- Numbered with English key card
- Size (L x W x H): 17 x 12.5 x 7.4 in. (43 x 32 x 19 cm)



Cat. No.	Description	Quantity	Unit of Measure
S15640	Animal Cell Model	1	Each

Supporting Your Sustainability Journey

Wherever you are in setting goals to **pave a greener path forward**, the Fisher Science Education team is here to help.

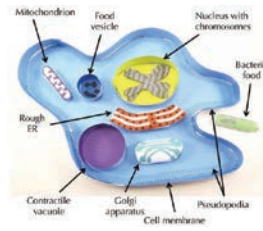
Visit fishersci.com/sustainability to learn more.

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part of Thermo Fisher Scientific

Amoeba 3D Model Kit

Assemble and use 3D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grade 6 to 10



Cat. No.	Description	Quantity	Unit of Measure
S81442	Amoeba 3D Model Kit	1	Each

Frog Life Cycle 3D Model Kit

Assemble and use 3D models to visualize and investigate key science processes.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grade 6 to 10



Cat. No.	Description	Quantity	Unit of Measure
S81455	Frog Life Cycle 3D Model Kit	1	Each

Eisco™ Wooden Insect Storage Box

Suits all insect collectors with a perforated chamber and soft pad lining to pin and display specimens.

- Glass front insect storage box
- Made from polished wood
- Includes 2 polished brass clasps for secure closure
- Bottom is lined with a thick pad for pinning insects
- Glazed inside with white art paper
- Double walled, perforated fumigation chamber
- Grade K to Undergraduate

WARRANTY: 1 year limited manufacturer

Cat. No.	Description	Quantity	Unit of Measure
S89502	Wooden Insect Storage Box	1	Each



Botany

Microslide™ Green Plants Set

Includes a detailed lesson plan to stimulate, inform, and question students.

- Microslide strip consists of images photographed through a microscope called photomicrographs
- Arrows and call outs help the student locate important features
- Includes lesson plan with pocket to store Microslide
- Reproducible worksheet with a purchase of 15

Image titles on Microslide:

- Green leaf (110x) - x.s - stained (10x)
- Green leaf - x.s. - stained (350x)
- Stomata - x.s. - stained (480x)
- Root hairs - w.m. - stained (35x) - left side root - x.s. - stained (20x) - right side
- Celery - l.s. (40x) left side/corn - x.s. (145x) right side
- Veins in a leaf - w.m. - stained (40x)
- Chloroplast the food factory- electron microscope (30,000x)
- Leaf with starch - w.m. - stained (35x)/bean seed - w.m. - stained (2x)

Cat. No.	Description	Quantity	Unit of Measure
S816725	Green Plants Set	1	Each



Microslide™ Monocots and Dicots Set

Includes a detailed lesson plan to stimulate, inform, and question students.

- Microslide strip consists of images photographed through a microscope called photomicrographs
- Arrows and call outs help the student locate important features
- Includes lesson plan with pocket to store Microslide
- Reproducible worksheet with a purchase of 15

Image titles on Microslide:

- Monocot seed (20x)
- Dicot seed (40x)
- Petunia seedling (10x)
- Monocot and dicot leaves
- Monocot or dicot (50x)
- Monocot dicot stems (34x)
- Dicot stem (18x)
- Monocot flower (6x)

Cat. No.	Description	Quantity	Unit of Measure
S816730	Monocots and Dicots Set	1	Each

Microslide™ Plant Kingdom

Includes a detailed lesson plan to stimulate, inform, and question students.

- Microslide strip consists of images photographed through a microscope called photomicrographs
- Arrows and call outs help the student locate important features
- Includes lesson plan with pocket to store Microslide
- Reproducible worksheet with a purchase of 15

Image titles on Microslide:

- Onion skin (110x)/elodea (150x)
- Bean seedling (1/4x)
- Antheridium (12x)/archegonium (12x)
- Fern (20x)
- Female pine cone (2.2x)
- Tulip flower (1/5x)
- Pistal (5x)/double fertilization (420x)
- Monocot seed (20x)/dicot seed (40x)

Cat. No.	Description	Quantity	Unit of Measure
S816737	The Plant Kingdom	1	Each



Simple Plant Cell 3D Model Kit

Assemble and use 3D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grade: 6 to 10

Cat. No.	Description	Quantity	Unit of Measure
S81463	Simple Plant Cell 3D Model Kit	1	Each



Eisco™ Model Plant Cell

The detailed 3D rendering of a greatly magnified plant cell is ideal for studying its structure and function of the various features.

- The model includes the peroxisome, Golgi apparatus, nucleus, nucleolus, nuclear envelope, endoplasmic reticulum, ribosomes, chloroplast, cytoskeleton, cell wall, plasma membrane, mitochondria, vacuole, and cytoplasm
- Features are colored and numbered for comparison with the included key
- Vividly hand painted
- Identification key card included
- Model dimensions: 11.5 x 10 x 2 in.
- Base dimensions: 16 x 12 x 1 in.

Cat. No.	Description	Quantity	Unit of Measure
S12903	Standard Plant Cell	1	Each



Garden Guide Soil Test Kit

Ideal for checking soil nutrient levels in school gardens and landscapes.

- Measure nitrogen, phosphorus, potassium (15 tests each) and soil pH (30 tests)
- Compare results to a laminated color chart
- Includes diagrammed instructions and all hardware supplies, Garden Guide Manual, Soil Handbook, and free online resource *A Study of Soil Science*
- Grade: 5 to 15

Cat. No.	Description	Quantity	Unit of Measure
S89510	Garden Guide Soil Test Kit	1	Each



Plant Cell Model

Magnified 500,000 to 1,000,000 times.

- Two-piece model presents the structure of a typical plant cell with cytoplasm and cell organelles as viewed from an electron microscope
- All important organelles are raised and displayed in color
- Dimensions: 7.8 x 5.5 x 12.6 in. (20 x 14 x 32 cm)

Displays:

- Cell wall
- Cell membrane
- Nucleus
- Smooth endoplasmic reticulum
- Rough endoplasmic reticulum
- Ribosomes
- Chloroplasts
- Mitochondria
- Dictyosomes/Golgi apparatus



Cat. No.	Description	Quantity	Unit of Measure
S96171	Plant Cell Model	1	Each

Eisco™ Premium Monocot Stem Model

Replicates a greatly magnified transverse section of a monocot stem.

- Model features a large 3D view of a monocot root
- Made of polyvinyl chloride (PVC) plastic for durability
- Hand-painted with vivid non-toxic paint
- Numbered and supplied with an English key card
- Mounted on base that measures 13 x 10 x 1 in.



Cat. No.	Description	Quantity	Unit of Measure
S15018	Model Monocot Stem	1	Each

Eisco™ Premium Monocot Root Model

Replicates a greatly magnified transverse section of a monocot root.

- Model features a large 3D view of a monocot root
- Made of polyvinyl chloride (PVC) plastic for durability
- Hand-painted with vivid non-toxic paint
- Numbered and supplied with English key card
- Model measures 11 x 8.5 x 1 in.
- Mounted on a sturdy base that measures 13 x 10 x 1 in.



Labeled Parts

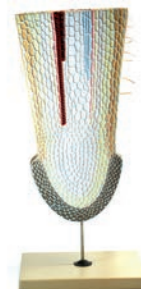
- Root Hair, Epiblema, Exodermis, Cortex-Parenchymatous, Inter Cellular Space, Endodermis, Strach Grain, Pericycle, Protoxylem Vessel, Metaxylem Vessel, Conjunctive Tissue, Phloem Bundle, Pith

Cat. No.	Description	Quantity	Unit of Measure
S15019	Model Monocot Root	1	Each

Eisco™ Premium Root Tip Model

Demonstrates internal and external structural details for studying the structure and function of the root tip.

- Detailed, vibrantly colored 3D cross section
- Effectively shows the inner anatomy and vasculature of a root tip, as well as the outer anatomy including root hairs
- Made of polyvinyl chloride (PVC) plastic for durability
- Hand-painted with vivid non-toxic paint
- Numbered and supplied with English key card
- Mounted on base with metal rod



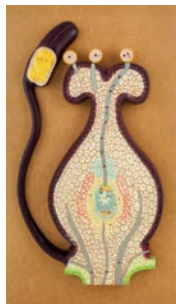
Cat. No.	Description	Quantity	Unit of Measure
S15020	Model Root Tip on Stand	1	Each

Eisco™ Angiosperm Fertilization Model

NEW

Provides a visually and kinesthetically effective method for studying the structure and function of angiosperms.

- Model represents a longitudinal dissection to provide an internal view
- Provides an excellent visual for understanding structure and function
- Made of polyvinyl chloride (PVC) plastic for durability
- Hand painted with vivid, non-toxic paint
- Mounted on 22 x 12 x 1.5 in. base
- Numbered and supplied with English key card



Details Identified

- Stamen, filament, anther, theca, pollen sacs, pollen grain and mother cell, vegetative cell, pollen tube, sperm cells, pistil, stigma, style, ovary, chalaza, external and internal integument, micropyle, nucellus, embryo sac, ovule, synergids, antipodes, secondary nucleus of embryo sac, conducting bundle and flower base with part of perianth

Cat. No.	Description	Quantity	Unit of Measure
S15021	Model Fertilization of Angiosperm	1	Each

Eisco™ Plant Cell Meiosis Models

NEW

Models have been redesigned to reflect the recent concept of chromosome changes from the resting nucleus to the formation of 4 daughter cells.

- Set of 16 Plant Cell Division models mounted on a board
- Made of polyvinyl chloride (PVC) plastic for durability
- Hand painted with vivid, non-toxic paint
- Supplied with English key card
- Base measures 24 x 18 in.



Cat. No.	Description	Quantity	Unit of Measure
S15022	Plant Cell Meiosis	1	Each

Eisco™ Angiosperm Life Cycle Model

NEW

A greatly-magnified model that includes the structures involved in the life cycle of a flowering plant.

- 3D rendering that effectively shows the life cycle of angiosperms
- Life cycle steps and cells are clearly labeled
- Made of polyvinyl chloride (PVC) plastic for durability
- Hand painted with vivid, non-toxic paint
- Mounted on a sturdy base for display
- Supplied with English key card
- Base measures 24 x 12.5 x 2 in.



Process and Structures Identified

- Flower, microsporophyll (stamen), megasporophyll (carpel), microsporangia, ovary, megaspore (mother cell), microspores, pollen tube, ovule, fertilisation, oospore, embryo, seed, seedling, sporophyte

Cat. No.	Description	Quantity	Unit of Measure
S15023	Model Life Cycle of Angiosperm	1	Each

Eisco™ Premium Monocot Flower Model

NEW

A greatly magnified longitudinal section of a wheat flower that demonstrates monocot flower structures.

- This model features a large 3D view of the inside of a monocot flower
- Made of polyvinyl chloride (PVC) plastic for durability
- Hand-painted with vivid non-toxic paint
- Numbered and supplied with English key card
- Mounted on base that measures 9.5 x 15 x 2.5 in.



Details Identified

- Penduncle, rachilla, outer glume, inner glume, inferior palea, lodicules (perianth), ovary wall (hairy), nucellus of ovules, connective, filament of stamens, anther lobes of stamens, embryo sac of ovules, integuments of ovules, 1st, 2nd, and 3rd fertile flowers (florets), terminal male flower, stigmas of ovaries, and anatropous basal ovule in ovary

Cat. No.	Description	Quantity	Unit of Measure
S15024	Model Monocot Flower	1	Each

Eisco™ Typical Flower Standing Model

Hand painted, break-resistant plastic typical flower model is a great aid for teaching angiosperm pollination and fertilization.

- Model of a greatly enlarged, idealized typical flower
- Break-resistant plastic
- Mounted on a base
- Numbered with English key card
- Perfect for teaching angiosperm pollination and fertilization



Cat. No.	Description	Quantity	Unit of Measure
S80809	Dissectible Typical Flower Model	1	Each

Eisco™ Typical Flower Model

A typical flower model for biological study.

- Three dimensional details depict internal structures, including reproductive parts
- Numbered with key card for identification of features
- Mounted on a base for display
- Hand painted
- Perfect for any classroom



Cat. No.	Description	Quantity	Unit of Measure
S80810	Model Typical Flower	1	Each

Eisco™ Detachable Flower Model

Detachable model of flower for botanical study.

- Ovary with single interior ovule
- Fixed on base
- Numbered with English key card
- L x W x H: 42 x 22 x 33 cm (16.5 x 8.6 x 13 in.)



Cat. No.	Description	Quantity	Unit of Measure
S15626	Model Typical Flower	1	Each

Dicotyledon Stem Model

Modeled after a sunflower, this one year dicot stem gives anatomy in cross, radial and tangential sections.

- 45X enlarged model of one year old sunflower dicot stem
- Cross, radial, and tangential sections display epidermis, cork layer, phloem region, cambium, xylem region, pith and vital structures in great detail
- Designed and built to be as accurate as possible
- Perfect for students and teachers
- Made of plastic and includes diagram



Cat. No.	Description	Quantity	Unit of Measure
S80990	Stem Model Dicotyledon	1	Each

Dicot Flower Model

Allows students to easily study the floral components and reproductive functions of flowers.

Enlarged to approximately eight times life size.

- Can be disassembled to reveal the pollen grains inside and show the process of pollination
- Structures are numbered on the flower model and correspond to an identification key
- Dimensions: 17.7 x 15.7 x 12 in. (45 x 39.9 x 30.5 cm)



Cat. No.	Description	Quantity	Unit of Measure
S06699	Dicot Flower Model	1	Each

Eisco™ Plant Mitosis Model

Made up of a set of 10 models that each depict a separate phase of plant mitosis.

- Set of 10 smaller models
- Individual models each depict a different phase of plant mitotic division
- Numbered with English key card
- Perfect for any classroom



Cat. No.	Description	Quantity	Unit of Measure
S80811	Model Plant Mitosis	1	Each

Photosynthesis Light Reactions 3D Model Kit



Assemble and use 3D models to visualize and investigate key science processes.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Grade 6 to 10

Cat. No.	Description	Quantity	Unit of Measure
S81460	Photosynthesis 3D Model	1	Each

Chloroplasts 3D Model Kit



Assemble and use 3D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grade 6 to 10

Cat. No.	Description	Quantity	Unit of Measure
S81445	Chloroplasts 3D Model Kit	1	Each

Eisco™ Dicot Stem Model

Shows the inner anatomy and vasculature of a dicot stem.

- The cross-section view with a slice removed provides two different internal views of a dicot stem
- Grade 9 to 12



Cat. No.	Description	Quantity	Unit of Measure
S13503	Model Dicot Stem	1	Each

Kemtec™ Plant Cancer Kit

Plant Cancer Kit allows students to investigate cancer in the laboratory.



- Students safely explore aspects of cancerous cell growth with this self-contained kit
- A fresh carrot is required but not provided
- Experiments enable students to visualize the differences between normal cells and cancerous cells, describe similarities and differences between animal and plant cancers, identify cancer cells, identify a plant cancer or gall, and research current theories on the causes of cancer
- Students grow their own sunflower plants, then induce crown gall by inoculating plant tissue with *Agrobacterium tumefaciens* which is required for inducing the cancerous growth (reply card item ships upon request and only in Continental US)
- Students then do a Koch's postulates experiment: inducing cancer in carrot tissue
- Allow 3 to 4 weeks if growing plants prior to inoculation and 3 to 4 weeks for tumor growth
- Experiment requires approximately one hour of lab time
- Designed for 24 students
- Recommended in conjunction with Koch's postulate experiment so as to use the same *Agrobacterium tumefaciens* culture or sub-culturing for later use
- Kit requires a free USDA permit for handling *Agrobacterium tumefaciens* to be obtained before the organism can be shipped
- Meets National Standards for grade levels 9 to 14

Cat. No.	Description	Quantity	Unit of Measure
S27529	Plant Cancer Kit	1	Each

Kemtec™ Plant Cloning II Kit

Allows users to generate a plant by cloning its tissue in an exciting and challenging experience that introduces students to biotechnology and sterile techniques.



- Students will establish a shoot multiplication culture using an African violet model, use sterile technique to develop African violet cloned cultures, and induce the development of multiple shoots (clones) from the leaf tissue
- Resulting plantlets may be started in soil
- The complete process takes approximately three months
- No hood or incubator is required
- Includes an instruction manual and a flash drive with a presentation including images of plant material at various stages of the experiment
- Perishable reply card items ship separately upon request and only in the continental US
- Meets National Standards for grade levels 9 to 14

Cat. No.	Description	Quantity	Unit of Measure
S27530	Plant Cloning II Kit	1	Each

Edvotek™ Dose Makes Poison: Testing Environmental Impacts of Pollution Experiment Kit

Students learn how to determine the effects of a given substance on living organisms.

- Biological assay for environmental pollution
- Inquiry-based: lab students plan and perform plant bioassay
- Determines environmental hazard of common point and non-point source pollutants
- Results are analyzed using averages, standard deviations, TC50 calculations, and integrating STEM concepts
- Class size: 10 lab groups

Includes: Instructions, radish seeds, plant growth medium, antifungal powder, pollutant solutions, cheese cloth, petri dishes, transfer pipets, serological pipet, conical tubes, microcentrifuge tubes, small loops

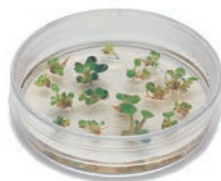


Cat. No.	Description	Quantity	Unit of Measure
S42876	The Dose Makes Poison Test Kit	1	Each

Edvotek™ Introduction to Plant Cell Culture

Great introduction to plant cell culture.

- Two-part experiment establishes cell cultures from plant materials and focuses on plant regeneration
- Learn about sterile testing procedures, components of plant culture media and effects of plant growth regulators on cell cultures
- Class size: 10 lab groups



Cat. No.	Description	Quantity	Unit of Measure
S67263	Introduction to Plant Cell Culture	1	Each

Kemtec™ Plant Cloning Kit

Reproduce entire plant systems from a section of a single plant.

Propagating plants by cloning teaches the importance of sterile biological techniques.

- Students practice sterile techniques required for many biotechnology methods
- Students germinate carrot seeds to provide plant material from which to establish callus culture
- Students induce development of multiple shoots (plantlets) from callus tissue
- Extended process takes approximately four months
- No hood or incubator required
- Includes detailed instruction manual and PowerPoint presentation with images of plant material at various stages of experiment
- Time Range: 2 hours, 15 minutes (plus one week for growing)
- For grades 9 to 12
- Class size: 24 students

⚠️ ALERTS: CHOKING HAZARD. Small parts. Not for children under 3 yrs.



Cat. No.	Description	Quantity	Unit of Measure
S25020	Intro to Plant Cloning Kit	1	Each

Seed Dispersal Set

Students learn how seeds are dispersed.

Includes:

- Six types of seed (12 or more of each)
- Instructions for demonstrating dispersal by mammals: by mechanical propulsion, by water, and by wind

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.



Cat. No.	Description	Quantity	Unit of Measure
S07537ND	Seed Dispersal Set	6	Pack

General Seed Set

A great way to introduce germination to students.

Includes: bean, rye grass, alfalfa, clover, corn, cucumber, lettuce, oats, barley, pea, pine, radish, soybean, squash, sunflower, mung bean, tomato, and wheat seeds

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.



Cat. No.	Description	Quantity	Unit of Measure
S07529ND	General Seed Set	18	Pack



SHIPPING ALERT: Because these items are living or perishable materials a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000.

Monocot Seeds

Species were selected because of their good germination rates.

- Germinating monocots have one seed leaf, parallel leaf venation, fibrous roots, and scattered vascular bundles
- Flower parts usually occur in threes

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.



Cat. No.	Description	Quantity	Quantity	Unit of Measure
S07525ND	Seed, Barley Viable	1 lb.	1	Each
S07527ND	Seed, Corn Field Viable	1 lb.	1	Each
S07528ND	Seed, Sweet Corn Viable	1 lb.	1	Each
S07530ND	Seed, Grass Rye Viable	1 lb.	1	Each
S07540ND	Seed, Wheat Viable	1 lb.	1	Each

Dicot Seeds

Dicots are the flowering plants whose seed typically has two embryonic leaves or cotyledons.

- Easily germinated
- Show typical dicot characteristics of two seed leaves, netted venation, taproots, and vascular bundles arranged in a ring
- Flower parts occur in fours and fives



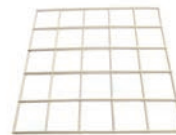
⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Description	Quantity	Quantity	Unit of Measure
S07523ND	Seed, Alaska Pea	1 lb.	1	Each
S07524ND	Seed, Alfalfa	0.25 lb.	1	Each
S07526ND	Seed, Broad Beans	1 lb.	1	Each
S07531ND	Seed, Bush Lima Beans	1 lb.	1	Each
S07532ND	Seed, Little Marvel Pea	1 lb.	1	Each
S07533ND	Seed, Mung Beans	1 lb.	1	Each
S07534ND	Seed, Pinto Beans	1 lb.	1	Each
S07535ND	Seed, Scarlet Globe Radish	1 lb.	1	Each
S07536ND	Seed, Red Kidney Beans	1 lb.	1	Each
S07538ND	Seed, Soy Beans	1 lb.	1	Each
S07539ND	Seed, Sunflower	1 lb.	1	Each

Eisco™ Quadrat Metal Frame

With 25 squares.

- Made from solid metal
- Dimensions (L x W): 500 x 500 mm



Cat. No.	Description	Quantity	Unit of Measure
S23703	Quadrat Metal Frame	1	Each

Eisco™ Field Herbarium Press

Eisco™ Field Herbarium Press allows specimens to dry quickly and evenly to preserve their color and shape.

- Made of durable hard wood slats
- Frame is 12 x 18 in.
- Includes 2 1.5 x 38 in. nylon straps
- Brackets on top and bottom hold straps in place for ease of use and better pressure on plant specimens
- Works with any 12 x 18 in. driers and ventilators, not included
- Great for use in field, lab or classroom

WARRANTY: 1 year limited manufacturer



Cat. No.	Height	Quantity	Unit of Measure
S89499	5.7 cm	1	Each



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Nutrient Deficiency in Plants Kit

Examine the effects of nutrient deficiency on plants.

Much like people, plants need food. While plants can generate some nutrients through the process of photosynthesis, the plant must obtain many nutrients from the environment.

- Using the materials provided, students can observe the effects of nutrient deficiency on plants
- Specially prepared nutrient solutions (included) allow students to deprive each plant of one of seven specific vital nutrients
- Over time, students determine the effects, if any, of the nutrient deprivation through physical observation of the plant's growth
- Contains enough materials for three complete setups
- Grade 7 to 14

Kit Includes:

- Solution A — 200 mL calcium nitrate 1M
- Solution B — 200 mL potassium nitrate 1M
- Solution C — 100 mL magnesium sulfate 1M
- Solution D — 50 mL potassium phosphate 1M
- Solution E — 25 mL sodium phosphate 1M
- Solution F — 100 mL sodium nitrate 1M
- Solution G — 25 mL magnesium chloride 1M
- Solution H — 25 mL sodium sulfate 1M
- Solution I — 50 mL calcium chloride 1M
- Solution J — 50 mL potassium chloride 1M
- Solution K — 100 mL micronutrient solution
- Vermiculite, 500g
- Cups, 24 (clear plastic, 5 oz.)
- Cups, 24 (clear, 7 oz.)
- Absorbent wick pads, 24
- Radish seeds



Cat. No.	Description	Quantity	Unit of Measure
S05798	Nutrient Deficiency in Plants Kit	1	Each

Eisco™ Polypropylene Plant Nursery Pots

Eisco™ Polypropylene planting pots, ideal for biology classroom experimentation and plant growth.

- Made of high quality polypropylene for excellent durability
- Feature drillable holes in the bottom for draining
- Pots have an extended rim to make lifting easier



WARRANTY: 1 year limited manufacturer

Cat. No.	Height (Metric)	Quantity	Unit of Measure
S29361	100 mm	1	Each
S29363	200 mm	1	Each
S29364	250 mm	1	Each

Biology

Cell Biology

Eisco™ Plant and Animal Cell Comparison Model

Set of two models to compare plant and animal cells.

- Enables teaching of plant and animal cell structures
- Numbered with English key card
- Mounted on stand
- Dimensions (L x W x H): 9.5 x 6.7 x 7 in. (24 x 17 x 18 cm)



Cat. No.	Description	Quantity	Unit of Measure
S15637	Model Plant and Animal Cell Comparison	1	Each



Supporting Your Sustainability Journey

Wherever you are in setting goals to **pave a greener path forward**, the Fisher Science Education team is here to help.

Visit fishersci.com/sustainability to learn more.

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Simple Cell 3D Model Kits

Assemble and use 3D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grade 6 to 10



Cat. No.	Description	Quantity	Unit of Measure
S81462	Simple Bacterial Cell	1	Each
S81453	Euglena	1	Each
S81459	Paramecium	1	Each

3D Cell Biology Model Kits

Assemble and use 3D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grade 6 to 10

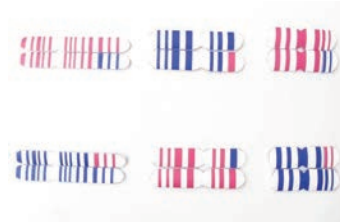


Cat. No.	Description	Quantity	Unit of Measure
S81443	Cell Membranes	1	Each
S81444	Cell Nucleus	1	Each
S81464	Stem Cells	1	Each

Mitosis and Meiosis 3D Model Kit

Assemble and use 3D models to visualize and investigate key science processes.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grade 6 to 10



Cat. No.	Description	Quantity	Unit of Measure
S81457	Mitosis and Meiosis	1	Each

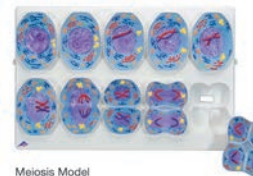
Mitosis and Meiosis Models

Models display the stages of mitosis or meiosis in a typical mammal cell at an enlargement of approximately 10,000 times.

- The three-dimensional relief models are painted according to the usual coloring methods of microscopy
- Makes the process of cell division easy to understand
- The cell organelles are shown as if opened up in the lower part of the models
- The models are equipped with magnets on the back so that they can be easily arranged on a classroom magnetic board



Mitosis Model



Meiosis Model

Stages of Mitosis (S99598)

- Interphase
- Prophase
- Early prometaphase
- Later prometaphase
- Metaphase
- Early anaphase
- Later anaphase
- Telophase
- Cytokinesis
- Dimensions (W x H x D): 60 x 40 x 6 cm
- Weight: 1.5 kg

Stages of Meiosis (S99599)

- Interphase (stage of G1-phase)
- Prophase I (leptotene)
- Prophase I (zygotene and pachytene)
- Prophase I (diplotene)
- Prophase I (diakinesis)
- Metaphase I
- Anaphase I
- Telophase I, cytokinesis I, interkinesis, prophase II and metaphase II
- Anaphase II
- Telophase II and cytokinesis II
- Dimensions (W x H x D): 60 x 40 x 6 cm
- Weight: 1.7 kg

Cat. No.	Description	Quantity	Unit of Measure
S99598	Mitosis Model	1	Each
S99599	Meiosis Model	1	Each

Eisco™ Animal Cell Division – Mitosis Model

Displays the stages of mitotic cell division.

- Set of 10 models
- Depicts resting cell, early prophase, prophase, late prophase, metaphase, anaphase, late anaphase, telophase and daughter cells
- Size (L x W x H): approx. 19.6 x 17.7 x 1.5 in. (50 x 45 x 4 cm)



Cat. No.	Description	Quantity	Unit of Measure
S15641	Model Animal Cell Division Mitosis	1	Each

United Scientific™ Mitosis Manipulatives Kit

Instructive and reusable.

Manipulatives make it easier to teach an abstract concept like mitosis in a science classroom.

- Teacher demonstration model includes large pieces with magnets attached
- Five sets of smaller manipulatives for use by students working in groups
- Reusable
- Includes Printed manual and downloadable resources
- Class size 30 students
- Grade 6 to 12



Cat. No.	Description	Quantity	Unit of Measure
S90331	Mitosis Manipulatives Kit	1	Each

Diffusion and Cell Size

Why are cells microscopic?

Demonstrates the need for cells to effectively move materials in and remove waste.

Students will:

- Create simulated cells (agar blocks) of different sizes
- Examine how effectively a substance is able to diffuse into the cell in a set period of time
- A special indicator in the cells will allow students to visualize the degree of diffusion
- The results will clearly display the fact that a smaller volume creates a more favorable condition for the exchange of material across cell membrane
- Class size: 15 lab groups
- Grade 7 to 14

COMPLIANCE: Conforms to 49 CFR 173.4

Cat. No.	Description	Quantity	Unit of Measure
S98650	Diffusion and Cell Size Activity	1	Each



Eisco™ Osmosis Kit

Designed for demonstration of osmotic pressure at an elementary level in biology. Osmosis Kit is ideal for students to understand the concept of Osmosis.

- Semi-permeable attached to wide end of funnel having an indicator tube
- Funnel is fixed in reservoir
- Supplied with teat dropper pipette
- Class size: 1 lab group
- Grades 7 to 12



Cat. No.	Description	Quantity	Unit of Measure
S23637	Osmosis Kit	1	Each

United Scientific™ Meiosis Manipulatives Kit

Makes the complex biological process of meiosis come alive in your classroom.

- Teacher demonstration models with 30 large chromosomes arranged in five colorful sets
- Each set consists of a maternal and paternal homolog, and four sister chromatids
- Alleles and parental lineage are clearly identified
- The fifth set has removable alleles for demonstrating cross-over
- Student models consist of smaller sets of chromosomes
- Kit contents are reusable
- Dimensions: 21 x 19 x 5 in. (53.3 x 48.3 x 12.7 cm)
- Class size: 5 lab groups
- Grade 5+



Cat. No.	Description	Quantity	Unit of Measure
S05932	Meiosis Manipulatives Kit	1	Each

Edvotek™ AP LAB 7: Cell Division – Mitosis and Meiosis

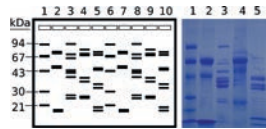
Students identify and differentiate the various stages in mitosis and meiosis.

- Onion root tips are stained to identify the various stages and duration of mitosis
- Meiosis and Crossing Over in *Sordaria* is also demonstrated
- Students can also analyze mechanisms involved with the loss of cell cycle control in cancer
- Class size: 10 lab groups



Cat. No.	Description	Quantity	Unit of Measure
S06885	Cell Division	1	Each

Edvotek™ Cell Types in the Brain Kit



The brain is an incredibly complex organ that uses a network of cells working together to function and perform everyday activities. This experiment helps students to examine the differences between cell types in the brain based on their profiles of proteins.

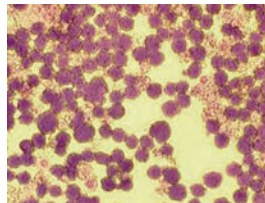
- Storage: some components require freezer storage
- For 6 groups sharing 3 polyacrylamide gels
- Grade 9 to Undergraduate

Includes: Pre-stained protein standard markers (lyophilized), protein samples (lyophilized), 10 x tris-glycine-sds chamber buffer, protein Instastain™, practice gel loading solution, transfer pipettes

Requires: 12% denaturing polyacrylamide gels (3), vertical gel electrophoresis apparatus, power supply, shaker platform (optional), automatic pipettes with tips, glacial acetic acid, methanol, beakers, transfer pipettes, foil, trays/containers, spatula, lab gloves, safety goggles, and distilled water

Cat. No.	Description	Quantity	Unit of Measure
S27561	Cell Types in the Brain	1	Each

Edvotek™ Morphology of Cancer Cells



This experiment allows students to see the differences between normal and cancer cells in both their growth, and cell types.

- Visually compare the morphology of various normal and transformed mammalian cells by microscopic examination
- Similar procedures are used to examine biopsy specimens
- Class size: 6 lab groups

Analysis and Comparison of Various Mammalian Cell Types

- Fixes and stains four different cell types for direct microscopic comparison to show the differences between normal and transformed cell cultures

Morphology of Cancer Cells

- Compares the contact inhibition of normal cells to the increased growth of cancer cell colonies

Includes: Instructions, multispot slides (2 cell types each), fixing agent, eosin and Flashblue™ stain, mounting medium, cover slips, transfer pipets, immersion troughs

Cat. No.	Description	Quantity	Unit of Measure
S67199	Morphology of Cancer Cells	1	Each

Osmosis and Diffusion 3D Model Kit



Assemble and use 3D models to visualize and investigate key science processes.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive teacher resource guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grade 6 to 10

Cat. No.	Description	Quantity	Unit of Measure
S81458	Osmosis and Diffusion 3D Model	1	Each



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Edvotek™ Detecting COVID-19 Using Reverse-Transcription PCR (RT-PCR)



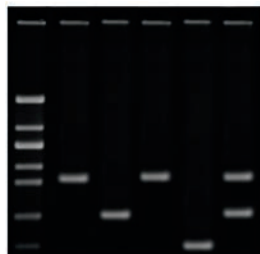
In this simulated RT-PCR experiment, students will explore the diagnostic test used worldwide to diagnose and monitor the spread of COVID-19.

- This experiment requires a PCR thermal cycler
- For 25 students working in 5 groups
- Time required: Set up - 30 minutes, PCR - 2 hours or overnight, Electrophoresis - 45 minutes
- Instructions, PCR EdvoBeads™, LyphoPrimer™ Mix, EdvoQuick™ DNA Ladder, DNA Templates, TE Buffer, UltraSpec-Agarose™, TBE Electrophoresis Buffer powder, SYBR™ Safe Stain, FlashBlue™ DNA Stain, Microcentrifuge & PCR Tubes
- Some components require freezer storage upon receipt
- Grade 9 to Undergraduate

Includes: Instructions, PCR EdvoBeads™, LyphoPrimer™ mix, EdvoQuick™ DNA ladder, DNA templates, TE buffer, UltraSpec-Agarose™, TBE electrophoresis buffer powder, SYBR™ Safe Stain, FlashBlue™ DNA stain, microcentrifuge & PCR tubes

Requires: DNA electrophoresis, thermal cycler, micropipettes: 5-50 µl, uv or blue light transilluminator, white light box (optional - use if staining with FlashBlue™), microcentrifuge & microwave or hot plate.

DISCLAIMERS: Please note, this experiment is a DNA simulation of reverse transcription PCR and is intended solely for educational purposes. There are no viral or human DNA products included in this experiment. The experiment will not perform viral RNA testing for SARS-CoV-2.



Cat. No.	Description	Quantity	Unit of Measure
S52005	COVID-19 Using RT-PCR	1	Each

Fisher Science Education™ Gram Stain Kit

Bacteria stain set for Gram negative and positive results.

- Uses 1% Gentian violet solution, Gram's iodine solution, 95% ethanol (decolorizer), and 1% safranin solution
- Gram's iodine solution packaged in PVC bottle
- Maximum performance over 12-month shelf life ensured
- This product is an educational grade chemical — no C of A is available
- Set of 4

Includes: Three large volume pipets, instructions, 250 mL 1% Gentian Violet solution, 250 mL Gram's Iodine solution, 250 mL decolorizer, 250 mL safranin solution, 250 mL 95% ethanol



Cat. No.	Description	Quantity	Unit of Measure
S25344	Gram Stain Kit	1	Each

fisherbrand Petri Dishes with Clear Lid

Feature a new and improved design and packaging.

- Made from medical-grade, gamma-sterilized polystyrene
- Ventilation ribs on the lid allow for air circulation
- Manufactured in a state-of-the-art cleanroom facility
- Packaging features a UPS™ shippable outer carton to prevent damage
- Product sleeve is made from a strong polymer to prevent bag holes
- Dishes packed in easy-open product sleeve with tear notch
- Product sleeves are vacuum sealed to prevent scuffing and other damage to dishes
- Sold in cases of 500



Cat. No.	Dimensions (L x W)	Quantity	Unit of Measure
FB0875713A	60 x 15 mm	500	Case

Bel-Art™ Contact Plate / Petri Dish Rack

Safely transports, incubates and stores contact plates with lids or petri dishes with lids to streamline benchtop sample processing.

- Compatible with RODAC™ and BD™ contact plates or 100 mm petri dishes and lids
- Rack is configured in 6 columns with bottom-access slots for easy, safe removal of items
- Center divider has a built-in handle with ample space for labeling
- Up to four racks can be stacked together and interlocked to prevent accidental knock over
- A small, stable base preserves bench top space
- Made from white polypropylene that is steam autoclavable at 121°C (250°F)
- Racks are shipped flat and are easily assembled



Cat. No.	Description	Dimensions (L x W x H)	Quantity	Unit of Measure
03-410-510	60 Contact Plates with Lids (72 mm dia.)	10.47 x 6.49 x 7 in. (26.6 x 16.5 x 17.8 cm)	1	Each
03-410-511	42 Petri Dishes with Lids (100 mm dia.)	13 x 8.25 x 7 in. (33 x 21 x 17.8 cm)	1	Each

Thermo Scientific™ EasYFlask, TC Surface, Filter Cap

EasYFlasks feature the Nunclon™ Delta treatment, a proprietary cell culture surface treatment that offers maximum adhesion for a broad range of cell types.

Features:

- Ergonomic design with a 1/3 turn to open and close the cap
- Low profile to maximize incubator space
- Volume graduations printed and molded on both sides
- Slightly angled side walls for complete viewing under a microscope
- Sterilized by gamma irradiation and certified to be nonpyrogenic
- Nunclon Delta Certification, including testing on four different cell types, is provided in every case.

Filter Caps:

- Filter membrane provides effective barrier against micro-organisms.
- Well-defined, hydrophobic filter membrane offers continuous venting with consistent gas exchange and no lot-to-lot variation.
- Chemically robust membrane meets USP class VI standards and is produced without animal-derived substances.

Solid Caps:

- Solid caps feature a “Y” mark that allows visual verification of vent position.
- Any of the legs in the “Y” pointing upwards indicates that the cap is in venting position.
- Vent position can be easily distinguished when flasks are stacked in the incubator.

Warranty: 90 days

Cat. No.	Description	Volume	Quantity	Unit of Measure
12-565-351	Nunc EasYFlask 25 cm ² with Filter Closure	7 mL	200	Case
12-565-349	Nunc EasYFlask 75 cm ² with Filter Closure	25 mL	100	Case



Corning™ Cell Culture Treated Flasks

Manufactured from optically clear virgin polystyrene for optimum visibility and distortion-free microscopic viewing. Available in a variety of sizes, designs and cap styles to meet laboratory diagnostic needs.

- Stackable, polystyrene
- Cell culture surface treatment promotes cell attachment and growth
- Tested for sterility, toxicity, cell attachment, and growth promotion
- Optically clear surfaces provide distortion-free microscope viewing
- Printed lot number for product traceability
- Sterile and nonpyrogenic
- Closure Type: Vented
- Capacity: 70 mL

Cap Types

- Phenolic-style screw caps for cultures requiring gas exchange
- Plug seal caps for airtight cultures
- Vent caps to minimize cell culture contamination with gas exchange

Canted-neck flasks feature:

- Antitip skirt
- Molded graduations
- Frosted marking areas on both sides
- Support bar across the top



Cat. No.	Description	Quantity	Unit of Measure
10-126-28	Flask 25 cm ² with Membrane	200	Case

fisherbrand

Research Grade Fetal Bovine Serum, Canadian Sourced



Fisherbrand™ Research Grade Fetal Bovine Serum is sourced from Canada and triple 0.1 µm filtered.

- Canadian origin
- Compliant with current good manufacturing practices (cGMP)
- For research use only

Cat. No.	Quantity	Quantity	Unit of Measure
FB12999102	500 mL	1	Each

Micro and Molecular Biology

Coronavirus 3D Model Kits

Assemble and use 3D models to visualize and investigate key science processes.



- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grade 6 to 10

Cat. No.	Description	Quantity	Unit of Measure
S81447	Coronavirus Antibody Test	1	Each
S81467	Coronavirus COVID-19 Structure	1	Each
S81468	Coronavirus DNA Test	1	Each
S81448	Coronavirus Cycle	1	Each

Antibodies 3D Model Kit

Assemble and use 3D models to visualize and investigate key science structures.



- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grade 6 to 10

Cat. No.	Description	Quantity	Unit of Measure
S81469	Antibodies 3D Model Kit	1	Each

Edvotek™ Micropipetting Basics

Pipetting is a critical skill necessary for the accuracy that is essential in scientific experiments.



- Demonstrates the use of micropipets
- Prepare various dye mixtures and deliver mixture to the Pipet Card™
- Practice new skills by loading samples onto an agarose gel

Cat. No.	Description	Quantity	Unit of Measure
S68632	Micropipetting Basics	1	Each

Edvotek™ Pipetting By Numbers: STEAM Pipetting Practice Kit

Helps students master the fundamental biotechnology technique of micropipetting while creating a colorful, science-themed classroom poster with their own artwork.



- Storage: room temperature
- Completion time: 45 minutes
- For 10 lab groups
- Grade 7 to Undergraduate

Cat. No.	Description	Quantity	Unit of Measure
S27559	Pipetting By Numbers Practice Kit	1	Each

Fisher Science Education™ Bacteria Culture Kit

Complete kit is ideal for middle and high school students.



Kit includes:

- Three polystyrene petri dishes, 100 x 15 mm
- Nutrient agar powder to create 120 cc of Agar
- Plastic stir rod to aid in mixing, 6 in. (15.2 cm)
- Instruction sheet for preparing agar

Note: Cultures are not included.

Cat. No.	Description	Quantity	Unit of Measure
S01970	Bacteria Culture Kit	1	Each

Student Bacteria Experiment Kit

Allows groups of students to culture their own bacteria without an incubator.

Melt the media in a microwave, pour it into media plates, and test for growth in four popular experiments.

Experiments:

- Test-common use items such as bathroom handles, doorknobs and water fountains
- Clean hand/dirty hand test: How many bacteria does soap eliminate?
- Clean mouth/dirty mouth test: How many bacteria does mouthwash eliminate?
- Which mouth contains more bacteria: a human's or a dog's?
- Class size 24 students (4 groups)
- Grade 4 to 12



Cat. No.	Description	Quantity	Unit of Measure
S68775	Bacteria Experiment Kit	1	Each

Edvotek™ Identification and Characterization of Bacteria Kit

Gram staining is a quick, effective, and medically-relevant identification test that is essential for bacterial classification. Students will use Gram staining to examine the size, shape, arrangement, and gram status (+/-) of *Escherichia coli*, *Bacillus subtilis*, and *Micrococcus luteus*.

- Storage: some components require refrigerator storage upon receipt
- Completion time: 90 minutes
- For 8 groups
- Grade 9 to Undergraduate



Cat. No.	Description	Quantity	Unit of Measure
S27555	Identification and Characterization of Bacteria Kit	1	Each

Edvotek™ How Clean is Clean? Testing the Effectiveness of Antibacterial Cleaners Kit

Students will do two experiments to explore the properties of bacterial growth. They will determine a bacteria's ability to resist the antibiotic ampicillin, then test different household cleaners to determine which one is the most effective at preventing bacterial growth.

- Storage: some components require refrigerator storage upon receipt
- Complete in 2 lab periods (24 hours)
- For 10 groups
- Grade 9 to Undergraduate

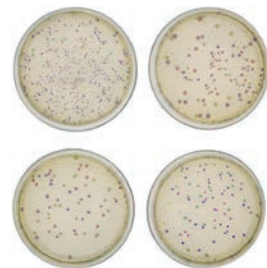


Cat. No.	Description	Quantity	Unit of Measure
S27556	How Clean is Clean Antibacterial Kit	1	Each

Edvotek™ Rainbow Transformation Kit

Allows for the selection, propagation, expression and purification of a gene.

- For 10 lab groups
- Set up and plating - 50 minutes
- Overnight incubation
- Transformation efficiency - 15 minutes



Cat. No.	Description	Quantity	Unit of Measure
S21224	Rainbow Transformation Kit	1	Each

Edvotek™ Transformation of *E. coli* with pGAL™ (Blue Colony)

Presence of IPTG is not required.

- Students will develop an understanding of bacterial transformation by plasmid DNA by introducing an opportunity to observe an acquired phenotypic trait of the transformed bacterial cells
- The presence of blue bacterial colonies visually demonstrates the expression of a specific gene for the Lac+ phenotype
- Time range: 50 min.
- Class size: 10 lab groups



Cat. No.	Description	Quantity	Unit of Measure
S11293	Transformation of <i>E. coli</i>	1	Each

Edvotek™ Transformation of *E. coli* with Green and Blue Fluorescent Protein Plasmids Classroom Kit



Helps students develop an understanding of bacterial transformation by plasmid DNA.

- Enables students to observe the acquired phenotypic trait of green or blue fluorescent protein exhibited by transformed bacterial cells
- Transformants acquire green (GFP) or blue (BFP) fluorescent protein genes contained in two different plasmids; the GFP gene was mutated to produce the blue protein
- Transformed cells are selected based on antibiotic resistance
- Colonies which express GFP or BFP protein are visibly green and pale blue and will fluoresce when exposed to long-wave UV light
- Class size: 10 lab groups

⚠️ ALERTS: Transformation experiments contain antibiotics which are used for the selection of transformed bacteria. Students who have allergies to antibiotics such as penicillin, ampicillin, kanamycin or tetracycline should not participate in this experiment. All components intended for educational research only. They are not to be used for diagnostic or drug purposes, nor administered to or consumed by humans or animals.

Cat. No.	Description	Quantity	Unit of Measure
S68653	<i>E. coli</i> Blue/Green Transformation Kit	1	Each

Edvotek™ Transformation of *E. coli* with Green Fluorescent Protein (GFP)



GFP gene was isolated and cloned from the jellyfish *Aequorea victoria*.

- Students will explore the biological process of bacterial transformation using *E. coli* and plasmid DNA
- At the end of the activity, students will have experience observing and analyzing acquired traits (ampicillin resistance and fluorescence) as exhibited by transformed bacterial cells
- Class size: 10 lab groups

Cat. No.	Description	Quantity	Unit of Measure
S68654	<i>E. coli</i> GFP Fluorescent Transformation	1	Each

Microbiology Science Fair Kit



Enables students to grow their own bacteria by swabbing various surfaces in the classroom.

- Hands-on, easy-to-use kit
- Provides opportunity to investigate all phases of growing bacteria
- Class size: 15 lab groups
- Grade 7 to 14
- **Includes:** 2 g of nutrient agar (makes 100 mL 2% agar), six petri dishes and six sterile swabs

Cat. No.	Description	Quantity	Unit of Measure
S07805	Microbiology Kit	1	Each

Freeze Dried Bacteria Cultures



The bacteria culture is freeze dried into a lyophilized pellet packaged in a sterile plastic vial. The culture includes one tube of rehydrating broth and one tube agar slant, sterile swab and instructions.

- Lyophilized pellet in vial
- Available for five different types of bacteria
- Grade 7 to 14

Cat. No.	Description	Quantity	Unit of Measure
S07806	<i>Bacillus subtilis</i>	1	Each
S07807	<i>E. coli</i>	1	Each
S07808	<i>Micrococcus luteus</i>	1	Each
S07809	<i>Serratia marcescens</i>	1	Each

United Scientific™ Aluminum Inoculating Needle



This Inoculating Needle features an 8 in. long non-insulated aluminum handle.



- Inoculating needle designed with an 8 in. long, non-insulated aluminum handle.
- Made from non-calibrated 26-gauge nickel-chromium wire.

Cat. No.	Description	Handle Length	Quantity	Unit of Measure
S111018***	Aluminum Inoculating Needle	8 in.	1	Each



United Scientific™ Aluminum Inoculating Loop

This inoculating loop features an 8 in. long non-insulated aluminum handle.



- Inoculating loop designed with an 8 in. long, non-insulated aluminum handle.
- The non-calibrated 26-gauge nickel-chromium wire loop is approximately 8 mm in diameter.

Cat. No.	Description	Handle Length	Quantity	Unit of Measure
S111017***	Aluminum Inoculating Loop	8 in.	1	Each

fisherbrand Nichrome/ Aluminum Inoculating Loops

Inoculating loops are used to introduce microorganisms into a culture medium.



- Fisherbrand™ Nichrome/Aluminum Inoculating Loops are provided with a standard aluminum handle
- Ideal for selecting, inoculating, or transferring microbiological samples
- Loops slide along agar surfaces without cutting or tearing material/sample
- Cools rapidly after sterilization
- Handle length: 8 in. (203 mm)
- Passivated
- Autoclavable up to 135°C; can be sterilized by EtO/gamma radiation
- Latex-free
- Produced under ISO 9002, GMP, cGMP guidelines

Cat. No.	Description	Quantity	Unit of Measure
13-104-5	Loop Inoculating Nichrome Wire, 3mm	12	Pack

IncuCount Automatic Colony Counter 150

Counts colonies and antibiotic reactions in a matter of seconds.

Includes:

- Easy-to-use 10 in. (25.4 cm) Android tablet
- Intuitive software
- Auto focus with override capabilities



Specifications:

- CPU: Android based operating system
- Lights: high intensity LED (top and bottom)
- Petri dish capacity: up to 100 mm, including 3M petri film
- Camera: high quality HD digital camera, Carl Zeiss optics
- Power requirements: 100-240 VAC 50/60Hz, 1.5 Amp
- Compatible with FDA 21 CFR part 11, export as PDF
- Auto focus with override capabilities

CERTIFICATION: UL approved LED lights, power supply, and camera
DISCLAIMERS: Note: For Research use only. Not for any human therapeutic or diagnostic use.

Cat. No.	Description	Quantity	Unit of Measure
S20821	Colony Counters	1	Each

Freeze Dried *E. coli* JM101 Bacteria Culture

Freeze dried into a lyophilized pellet packaged in a sterile plastic vial.

- Includes one tube of rehydrating broth and one tube agar slant, sterile swab and instructions
- Grade 7 to 14

DISCLAIMERS: DOT: Non regulated

Cat. No.	Description	Quantity	Unit of Measure
S37738	<i>E. coli</i> JM101 Freeze Dried	1	Each



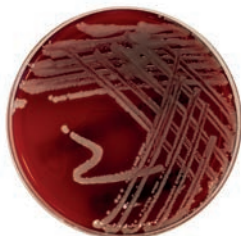
Thermo Scientific™ Blood Agar (TSA with Sheep Blood) Medium, 10 x 100 mm Spacesaver Plate



Grow a wide variety of microorganisms on this general purpose non-selective medium that includes sheep blood to promote haemolysis.

Tryptone Soya Agar (casein soya bean digest agar) with defibrinated sheep blood is suitable for the cultivation of fastidious aerobic and anaerobic bacteria, the latter of which can be grown either in deep cultures or by incubation under anaerobic conditions. The combination of casein digest and papaic digest of soybean meal leads to optimal growth due to synergy between the protein supply of casein and the carbohydrate supply of soybeans. Sterile defibrinated sheep blood used to enrich the medium produces the hemolysis characteristics of different bacteria, such as streptococci, *listeria*, hemolytic *Staphylococcus*, *Escherichia coli* and *Pseudomonas*.

Not all products are available for sale in all territories. Please inquire. Remel™ and Oxoid™ products are now part of the Thermo Scientific brand, combining powerful manual, semi-automated and fully automated test products and a comprehensive line of media and diagnostic products to offer a complete, end-to-end solution to quickly deliver the products you need, and the quality results your laboratory depends on.



Cat. No.	Description	Quantity	Unit of Measure
R01202	Blood Agar (TSA with 5% Sheep Blood)	100	Pack

100 x 15 mm Prepared Media Plates

An industry standard for nearly a century, this excellent prepared media supports a wide range of microorganisms.

- Each plate has an imprinted lot number and expiration date to ensure quality and viability
- Supports a broad spectrum of microorganisms
- Comes in a convenient 10-pack of sterile, ready-to-use plates

Note: C of A unavailable for this item

Includes: Prepared Media booklet

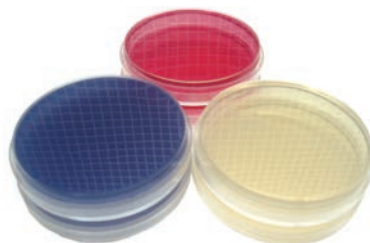
⚠ ALERTS: There is a SHIPPING ALERT for this product group, see box below.

Cat. No.	Media Type	Quantity	Unit of Measure
S21800ND	Nutrient Agar	10	Pack
S21801ND	Tryptic Soy Agar	10	Pack
S21807ND	MacConkey Agar	10	Pack
S21802ND	Mannitol Salt Agar	10	Pack

Prepared Culture Media in Plates

Labeled with product name, expiration date and lot number.

- Sterile plates are ready for immediate use
- Supplied in disposable plastic petri dishes, 100 mm outside diameter x 15 mm deep
- Packed in clear, heat-sealed cellophane bags



Sabouraud Dextrose Agar (S716971A) Isolation, cultivation and identification of non-pathogenic and pathogenic fungi

Plate count Agar (S716951A) Obtaining the microbial content of Milk and other sanitary materials

Potato Dextrose (S716961A) Isolation, identification and cultivation of Yeasts and molds from dairy and food products

Nutrient Agar (S716931A) Cultivation of non-fastidious microorganisms, according to the method described by the American Public Health Association

Tryptic Soy (S716981A) Isolation of different strains of fastidious and non-fastidious aerobic and anaerobic microorganisms

Cat. No.	Media Type	Quantity	Unit of Measure
S716971A	Sabouraud Dextrose Agar culture media	10	Pack
S716951A	Plate count Agar culture media	10	Pack
S716961A	Potato Dextrose Agar culture media	10	Pack
S716931A	Nutrient Agar culture media	10	Pack
S716981A	Tryptic Soy culture media	10	Pack



SHIPPING ALERT: Because these items are living or perishable materials a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000.

BioPaddles™ Dual-Agar Paddles for Environmental Education



Contain microbe-specific media enclosed in a sterile vial.

Flexible, ready-to-use paddles identify and quantify microbes in air, soil, water, or on any surface.

- Longer shelf life than traditional Petri dishes
- No refrigeration required
- No need for inoculating loops or Bunsen burners
- Requires simple incubation and a magnifier
- Unique design enhances colony morphology characterization
- Ten paddles per box

Nutrient Agar: For routine culture of non-fastidious bacteria.

Sabouraud Dextrose Agar: For selective cultivation of fungi (yeasts and molds).

Tryptic Soy (TSA)/Rose Bengal (RB) Agar: For cultivation of a wide variety of microorganisms (TSA) and selective isolation of yeasts and molds (RB).

Nutrient TTC/MacConkey: TTC: For field sampling cultivation and enumeration of coliform bacteria total coliform count; Gram (-) bacterial colonies appear as red dots; Gram (+) bacteria are usually inhibited. MAC: Medium gives improved differentiation between coliforms and nonlactose fermenting organisms; Gram (+) cocci are usually inhibited.

Cat. No.	Media Type	Quantity	Unit of Measure
S04345	Sabouraud Dextrose Agar	1	Each
S04346	TSA/RB Dual Agar	1	Each
S04347	NUT-TTC/MAC Dual Agar	1	Each

BioPaddle™ Total Coliform Activity

**For fast and reliable
cultivation and enumeration
of coliform bacteria.**

- Contains 10 BioPaddles with Nutrient-TTC/MacConkey Agar for field sampling cultivation and enumeration of coliform bacteria Total Coliform Count (TCC)
- Gram (-) bacteria colonies appear as red dots; Gram (+) bacteria and Gram (+) cocci are usually inhibited
- Medium gives improved differentiation between coliforms and nonlactose fermenting organisms



Cat. No.	Media Type	Quantity	Unit of Measure
S04348	Nutrient-TTC/MacConkey Agar	1	Each

100 x 15 mm Prepared Media Plates

An industry standard for nearly a century, this excellent prepared media supports a wide range of microorganisms.

- Each plate has an imprinted lot number and expiration date to ensure quality and viability
- Supports a broad spectrum of microorganisms
- Comes in a convenient 10-pack of sterile, ready-to-use plates
- Comes in a pack of 10

Note: C of A unavailable for this item

Includes: *Prepared Media* booklet

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.



Cat. No.	Media Type	Quantity	Unit of Measure
S42831	Eosin Methylene Blue Agar	1	Each

Nutrient Broth, Prepared Media Tubes

Sterile, ready-to-use media.

- No autoclave needed. Each tube of prepared media is carefully tested for sterility and to verify its ability to support the characteristic growth of appropriate organisms.
- Variety of options—bottles, plates, tubes, and dehydrated media

Note: C of A unavailable for this item

⚠️ ALERTS: There is a SHIPPING ALERT for this product group, see box below.



Cat. No.	Media Type	Quantity	Unit of Measure
S21803ND	Nutrient Broth	10	Pack



SHIPPING ALERT: Because these items are living or perishable materials a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000.

Nutrient Agar Slant, Prepared Media Tubes

Sterile, ready-to-use media.

- No autoclave needed. Each tube of prepared media is carefully tested for sterility and to verify its ability to support the characteristic growth of appropriate organisms.

- Variety of options—bottles, plates, tubes, and dehydrated media

Note: C of A unavailable for this item

⚠️ ALERTS: There is a **SHIPPING ALERT** for this product group, see box below.

Cat. No.	Media Type	Quantity	Unit of Measure
S21811ND	Nutrient Agar Slant	10	Pack



Phenol Red Broth Base Lactose with Durham Tube, Prepared Media Tubes

Sterile, ready-to-use media.

- No autoclave needed. Each tube of prepared media is carefully tested for sterility and to verify its ability to support the characteristic growth of appropriate organisms.
- Variety of options—bottles, plates, tubes, and dehydrated media
- Free of antibiotics, pesticides, and other chemicals

Note: C of A unavailable for this item

⚠️ ALERTS: There is a **SHIPPING ALERT** for this product group, see box below.

Cat. No.	Media Type	Quantity	Unit of Measure
S21804ND	Phenol Red Broth Base Lactose with Durham Tube	10	Pack



Phenol Red Broth Base Dextrose with Durham Tube, Prepared Media Tubes

Sterile, ready-to-use media.

No autoclave needed. Each tube of prepared media is carefully tested for sterility and to verify its ability to support the characteristic growth of appropriate organisms.

- Variety of options—bottles, plates, tubes, and dehydrated media
- Free of antibiotics, pesticides, and other chemicals

Note: C of A unavailable for this item

⚠️ ALERTS: There is a **SHIPPING ALERT** for this product group, see box below.

Cat. No.	Media Type	Quantity	Unit of Measure
S21809ND	Phenol Red Broth Base Dextrose with Durham Tube	10	Pack



Phenol Red Broth Base Sucrose with Durham Tube, Prepared Media Tubes

Sterile, ready-to-use media.

No autoclave needed. Each tube of prepared media is carefully tested for sterility and to verify its ability to support the characteristic growth of appropriate organisms.

- Variety of options—bottles, plates, tubes, and dehydrated media
- Free of antibiotics, pesticides, and other chemicals

Note: C of A unavailable for this item

⚠️ ALERTS: There is a **SHIPPING ALERT** for this product group, see box below.

Cat. No.	Media Type	Quantity	Unit of Measure
S21810ND	Phenol Red Broth Base Sucrose with Durham Tube	10	Pack



SHIPPING ALERT: Because these items are living or perishable materials a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000.

Prepared Culture Media in Tubes

Ready-to-use media prepared in disposable borosilicate glass tubes.

- Tubes measure 16 mm outside diameter x 125 mm long and have black plastic screw caps
- Each tube is labeled with product name, expiration date and lot number
- Refrigerate until ready to use



Cat. No.	Media Type	Quantity	Unit of Measure
S716933A	Nutrient Agar, Slant	20	Pack
S716942A	Nutrient Broth	20	Pack
S716992A	Tryptic Soy Broth	20	Pack

Sterile Prepared Agar and Broth

High quality microbiological media at an economical price.

- Packaged in a case of 24



Cat. No.	Description	Volume	Quantity	Unit of Measure
S29572	MacConkey Agar	125 mL	1	Each
S29571	MacConkey Agar	200 mL	1	Each

Nutrient Agar

High quality microbiological media at an economical price.

- Packaged in a case of 24



Cat. No.	Description	Volume	Quantity	Unit of Measure
S29561	Nutrient Agar	200 mL	1	Each
S29562	Sterile Prepared Agar and Broth	125 mL	1	Each

Dehydrated Culture Media and Ingredients

Essential agents for preparing culture media.

Successful bacteriological work begins with high-quality media. Agar, a solidifying agent, is an essential component of many media. So when you are planning your class projects, be sure to order ample supplies of agar, too.



Cat. No.	Description	Quantity	Quantity	Unit of Measure
S71614A	Nutrient Agar	1 lb.	1	Each
S71613A	Nutrient Agar	0.25 lb.	1	Each
S71627A	Tryptic Soy Agar	1 lb.	1	Each
S71646A	Nutrient Agar 1.5%	1 lb.	1	Each
S71648A	Nutrient Broth	1 lb.	1	Each
S71659A	Potato Dextrose Agar	1 lb.	1	Each
S71666A	Sabouraud Dextrose Agar	1 lb.	1	Each

Agar Powder

Nutrient Agar is used as a culture medium to cultivate various household bacteria.

- Will make 500 mL of agar (1/2 Liter), enough for twenty 90 mm petri dishes
- Detailed agar preparation instructions included
- Age 7+



Cat. No.	Description	Quantity	Quantity	Unit of Measure
S81678	Agar Powder	0.5 L (Foil Bag)	1	Each

Biochemistry

Biochemistry Molecular Model Kit

Compact/semi-space-filling models feature the "mushroom style" hydrogen atom-link part.

257 atom parts cover a wide range of biochemical structures including amino acids, monosaccharides, fatty acids, glycerol, steroids, purines, pyrimidines, peptides, disaccharides, nucleosides, nucleotides, coenzymes, proteins, polysaccharides and nucleic acids.



Cat. No.	Description	Quantity	Unit of Measure
S68292	Molecular Model, Biochemistry Kit	1	Each



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Keep your students safe and engaged with a selection of remote learning tools and materials.

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 **fisher science education**
part of Thermo Fisher Scientific

Kemtec™ Biochemistry Kits

Kits provide teachers with the resources to develop course material, and experiments of varying complexities.

- Grades 10–14

Biochemistry I (S30816):

- Introduce students to the chemistry of living things
- Features five classic biochemistry experiments
- Use Benedict's reagent, Biuret, Sudan IV, Iodine to test for proteins, carbohydrates, and lipids
- Use pepsin to digest protein
- Test the activity of salivary amylase (both in vitro and in vivo)
- Develop a technique for determining ascorbic acid concentration to use to evaluate Vitamin C levels
- Determine the alkalinity and acidity of foods
- Ideal for students in biology, general science, nutritional science, or biochemistry
- Time range 3.5 to 4 hr.

Biochemistry II (S30817):

- Includes an entire course worth of classic biochemistry experiments presented at a more in-depth level than Biochemistry I
- Learn how to measure the pH of foods, saliva, and soil
- Learn classic detection methods for sugars, starch, fat, and protein
- Pepsin digestion of protein
- Amino acid detection using ninhydrin
- Explore the effects of varying conditions on salivary amylase activity
- Model how digestion works
- Determine ascorbic acid concentration
- Explore dyes and plant pigments using chromatography with different solvents
- Ideal for supporting higher level biology, nutritional science, advanced general science, or biochemistry courses
- Time range 8 to 10 hr.

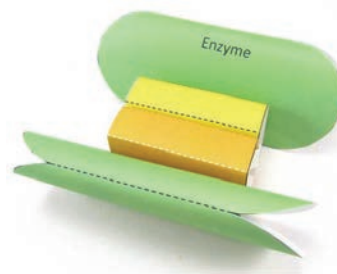
Cat. No.	Description	Quantity	Unit of Measure
S30816	Biochemistry I	1	Each
S30817	Biochemistry II	1	Each



Enzymes 3D Model Kit

Assemble and use 3D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grade 6 to 10



Cat. No.	Description	Quantity	Unit of Measure
S81452	Enzymes 3D Model Kit	1	Each



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THE FISHER SCIENTIFIC EDGE PROGRAM

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SUPPORTING YOUR SUSTAINABILITY JOURNEY

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Enzymes and the Process of Digestion

Understanding the vital role that enzymes play in the process of human digestion.

- With this activity, students expose three nutrients (carbohydrates, proteins and lipids) to different digestive enzymes
- These samples tested against nutrients to which no enzymes are added to determine if the enzymes were effective in digesting the compounds
- Upon completion, students understand the importance of the digestive system and the vital role enzymes play in releasing nutrients from food and converting them to a form usable by the body
- Grade 7 to 14

COMPLIANCE: DOT: Small quantity exemption 173.3. Package conforms to 49CFR 173.4.

⚠️ ALERTS: WARNING: This product can expose you to chemicals including Phenolphthalein, which is known to the State of California to cause cancer.



Kit includes enough material for 15 groups:

- Pancreatin (powder, 5 g)
- Bile salts (powder, 0.25 g)
- Albumin egg (powder, 2.5 g)
- Soluble starch (2.5 g)
- Pepsin 1:10,000 (1 g)
- Amylase bacteriological powder (25 g)
- 0.1M sodium hydroxide (25 mL)
- 0.1M hydrochloric acid (25 mL)
- Biuret for protein test (25 mL)
- 1% phenolphthalein (25 mL)
- Dilute Iugols solution (25 mL)
- Pure olive oil (25 mL)
- 10 plastic pipets

Kemtec™ Advanced Enzymology Kit

Introduces students to wide variety of enzyme kinetics.

Students use a spectrophotometer to study aspects of enzyme kinetics. They determine the reaction rate of Invertase when subjected to varied substrate concentrations, competitive and non-competitive inhibitors, changes in pH, and changes in temperature.



- Reducing sugars are measured with chemical DNS, which creates distinctive color change
- Grades 11 to 14
- Class size: 24 students
- Includes all necessary chemicals and reply card for Invertase enzyme and glucose solutions to be shipped separately upon request – reply card items are only shipped within continental United States
- Spectrophotometer required

⚠️ ALERTS: CHOKING HAZARD. Small parts. Not for children under 3 yrs.

Cat. No.	Description	Quantity	Unit of Measure
S06758	Enzymology Advanced Kit	1	Each

Cat. No.	Description	Quantity	Unit of Measure
S05800*	Enzymes and the Process of Digestion Kit	1	Each

HEADLINE Discoveries

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MyPlate Food and Nutrition Curriculum Sets

Master key concepts of food, nutrition, and a healthy lifestyle– grades 6 to 10.

Flip Chart Set (S81085)

- The colorfully illustrated pages provide students with an engaging means to understand the food groups, and the importance of making healthy lifestyle choices
- Each page is laminated, double-sided and spiral-bound on a sturdy, free-standing easel
- One side features self-directed readings and easy-to-follow graphical explanations, while the reverse provides write-on/wipe-off exercises for review and reinforcement
- Includes a student activity guide with copy-masters of charts and review questions
- Set includes the following 10 charts: Food Nutrients, Choose MyPlate, Fruits Food Group, Vegetables Food Group, Protein Food Group, Grains Food Group, Dairy Food Group, Oils and Fat, Nutrition Facts Labels, Making Healthy Choices

Bulletin Board Chart Set (S81091)

- Each of the charts is laminated and double-sided
- One side features a graphic overview of the concept and easy-to-follow, illustrated explanations
- The reverse side includes write-on/wipe-off activities for student review and reinforcement
- Set includes the following 8 charts: Food Nutrients, Choose MyPlate, Fruits Food Group, Vegetables Food Group, Protein Food Group, Grains Food Group, Dairy Food Group, Oils and Fat

Student Learning Guides (S81092, S81093)

- Includes grade-appropriate self-directed readings, easy-to-follow illustrated explanations, pause and review questions, interactive activities, key vocabulary review and assessment questions
- Covers food, nutrients, food groups, understanding nutrition facts labels, and making healthy choices

Visual Learning Guides Collection Set (S81090)

- Collection consists of 10 laminated, write-on/ wipe-off Guides
- Each guide covers a different topic and includes 4 panels featuring an illustrated overview of the concept, labeling and review exercises, vocabulary activities, and assessment and review questions



- Includes Teacher Guide with instructions for successful classroom integration
- Comprehensive coverage of: Food Nutrients, Choose MyPlate, Fruits Food Group, Vegetables Food Group, Protein Food Group, Grains Food Group, Dairy Food Group, Oils and Fat, Healthy Snacking, Making Healthy Choices

MyPlate Learning Center (S81087)

- Designed for either teacher-directed instruction or independent use by groups of up to 4 students
- Includes four Visual Learning Guides all focused on this key topic – for direct instruction through an easy-to-follow topic overview
- Write-on/wipe-off activities
- Guiding, assessment review questions
- A Curriculum Mastery Game for small group review, featuring one set of 30 illustrated, self-checking question cards, a laminated game board, materials for four players, and student instructions
- Ideal for use in the classroom, after-school programs, or even at home
- Provides materials for up to 4 students, takes only minutes to set up
- Stores in the zippered pouch provided for years of use

Cat. No.	Description	Title	Quantity	Unit of Measure
S81085	Flip Chart Set	Food Groups	1	Each
S81091	Bulletin Board Chart Sets of 8	Food & Nutrition	1	Each
S81092	Student Learning Guide	Food & Nutrition	1	Each
S81093	Student Learning Guides, Set of 10	Food & Nutrition	1	Each
S81090	Visual Learning Guides Collection Set of 10	Food & Nutrition	1	Each
S81087	Learning Center	Choose MyPlate	1	Each

Food Nutrients Learning Centers

Master key concepts of food, nutrition, and a healthy lifestyle.

- Designed for either teacher-directed instruction or independent use by groups of up to 4 students
- The Learning Center covers Food Nutrition Labels
- Includes four Visual Learning Guides all focused on this key topic – for direct instruction through an easy-to-follow topic overview
- Write-on/wipe-off activities
- Guiding, assessment review questions
- Includes a Curriculum Mastery Game for small group review, featuring one set of 30 illustrated, self-checking question cards, a laminated game-board, materials for four players, and student instructions
- Ideal for use in the classroom, after-school programs, or even at home
- Provides materials for up to 4 students, takes only minutes to set up
- Stores in the zippered pouch provided for years of use
- Grades 5 to 9



Cat. No.	Description	Quantity	Unit of Measure
S81088	Understanding Nutrition Facts Learning Center	1	Each
S81086	Food Nutrients Learning Center	1	Each
S81089	Making Healthy Choices Learning Center	1	Each

Small Group Learning: Science In The Kitchen

This comprehensive kit incorporates a variety of scientific techniques themed around common kitchen materials.

- Students will perform chromatography on commercial food colors
- Perform chemical tests to identify an unknown cooking ingredient
- Examine the protein digesting ability of a common meat tenderizing enzyme
- Use titration to quantify vitamin C levels
- Test an unknown juice or soda (not provided)
- Examine some of the differences and similarities in the materials used to clean (soap, hand dishwashing detergent, and machine dishwashing detergent)
- Teacher's manual and student study guide copymasters are included
- Aligned to the Next Generation Science Standards (NGSS)
- Disciplinary core ideas: PS1.A, PS1.B
- Performance expectations: MS-PS1-2, MS-PS1-3, HS-PS1-3
- Cross cutting concepts: patterns, structure, and function
- Engineering practices: analyzing and interpreting data; obtaining, evaluating and communicating information; planning and carrying out investigations
- Kit contains enough materials for 5 groups
- Grades 7 to 14



DISCLAIMERS: Next Generation Science Standards is a registered trademark of Achieve. Neither Achieve nor the lead states and partners that developed the Next Generation Science Standards was involved in the production of, and does not endorse, this product.

Cat. No.	Description	Quantity	Unit of Measure
S40755	Science in the Kitchen	1	Each

Healthcare Training and Education Supplies

Explore a complete range of healthcare education products to help prepare the nurses and allied health professionals of tomorrow.

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Find a range of tools to develop basic knowledge and learn advanced skills.

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- Infection and Spill Control
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- Primary and Emergency Care Education
- Diagnostic Education
- Health Science Specialties
- Other Specialty Training

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Eisco™ Food Calorimeter

Students can determine the amount of energy released through the burning of food by measuring the change in temperature of a sample of water from the combustion of a small amount of food.

- Introduces concepts in thermodynamics and leads to an understanding of energy and its relation to food consumption

Kit contains:

- Erlenmeyer flask (125 mL)
- Cylindrical metal stand (diameter x H): 4 x 6.75 in.
- Metal suspension plate 4.5 x 4.5 in.
- Cork with nail (food sample holding assembly)
- Rubber stopper
- Experiment Guide



Cat. No.	Description	Quantity	Unit of Measure
S23759	Food Calorimeter	1	Each

United Scientific™ Foam Calorimeters

Have excellent insulating properties so you can investigate thermal energy with minimal loss to the environment.

- The lids have holes for inserting a thermometer or temperature probe.
- Outside Dimensions – Height: 4.25 in. x Diameter: 4 in.
- Inner container – Height: 4 in. x Diameter 4 in.
- Maximum water capacity with lid on 400 mL
- Grade 5 to 12



Cat. No.	Description	Quantity	Unit of Measure
S89546	Foam Calorimeter	10	Pack

Advanced Placement Biology

AP Biology Investigation Kit No. 13: Enzyme Activity

Students will use turnip extracts to learn the nature and specificity of enzyme-catalyzed reactions.

The reaction between hydrogen peroxide and peroxidase enzyme will be examined after testing with one or more influential factors.

- Kits contains materials for eight groups
- Meets AP Science Practices 4, 5, 6 and 7, and Big Idea 4
- Class size: 8 lab groups
- Grades 10 to 12



Cat. No.	Description	Quantity	Unit of Measure
S07044	Enzyme Activity Kit	1	Each

AP Biology Investigation Kit No. 1: Artificial Selection

To study the process of artificial selection by using fast growing plants.

- Students will identify phenotypic differences to observe
- Selective cross pollination is used to examine prevalence of particular phenotypes in successive generations
- Meets AP Science Practices 2, 5, 7, and Big Idea 1
- Class size: 8 lab groups or 32 students
- Grades 7 to 14



Cat. No.	Description	Quantity	Unit of Measure
S07063	AP Biology Investigation Kit No. 1: Artificial Selection	1	Each

AP Biology Investigation Kit No. 12: Fruit Fly Behavior



Learn about fruit fly behavior.

- Students study whether fruit flies move toward or away from important chemicals and food that aid in their survival
- Students can identify patterns by observing fruit fly behavior in the choice behavior chamber
- Students will formulate their own theories based on the fruit flies' response to the chemicals and foods. Then, they can determine what materials and experiments should be tested further.
- Meets AP Science Practices 1, 3, 4, 5, 6, and 7, and Big Idea 4
- Materials provided for eight lab groups

Kit Includes:

- Ethyl alcohol (30 mL)
- Deionized water (30 mL)
- 5% ammonia (30 mL)
- Vinegar (30 mL)
- Fruit fly vials
- Behavior Choice Chambers (8)
- Coupon for perishable materials (8 fruit fly cultures)
- Grades 7 to 14

Cat. No.	Description	Quantity	Unit of Measure
S07060***	AP Biology Investigation Kit #12: Fruit Fly Behavior	1	Each

AP Biology Investigation Kit No. 5: Photosynthesis



Students learn necessary components and conditions for photosynthesis using leaf disks to measure oxygen accumulation, and its affect on the process.

Students will design and conduct an experiment using a selected variable to examine the rate of photosynthesis.

- Meets AP Science Practices 1, 2, 3, 6 and 7, and Big Idea 2
- Includes enough materials for eight lab groups
- Class size: 8 lab groups
- Grades 10 to 12

Cat. No.	Description	Quantity	Unit of Measure
S07045	AP Biology Investigation Kit #5: Photosynthesis	1	Each

AP Biology Investigation Kit No. 4: Diffusion and Osmosis



To observe osmosis and diffusion in living tissue.

- Students study concepts in osmosis and diffusion processes
- Investigate relationship between surface area and volume as it relates to cells and diffusion
- Examine the concept of molarity and its relation to osmotic potential and movement of water across cell membranes
- Study how cell size, shape and water elimination affect the overall rate of nutrient intake
- Students use plant tissue to determine molarities of unknown solutions based on direction and degree of water movement
- Meets AP Science Practices 2, 4, and 5, and Big Idea 2
- For 8 groups

Kit Includes:

- Agar (45 g)
- Bromothymol blue concentrate (15 mL)
- 2M hydrochloric acid (2 x 25 mL)
- Sucrose quick solution (makes 0.2M, 0.4M, 0.6M, 0.8M, 1M)
- Sodium chloride quick solution
- Ovalbumin quick solution
- Glucose quick solution
- Distilled water solution
- Food coloring set
- Plastic cups
- 8 agar block casting trays
- 40 pieces dialysis tubing
- 8 plastic knives, stirrers
- 8 metric rulers
- Microscope slides, coverslips
- Teacher manual
- Student study guide
- Grades 7 to 14

Cat. No.	Description	Quantity	Unit of Measure
S07056*	AP Biology Investigation Kit #4: Diffusion and Osmosis	1	Each

AP Biology Investigation Kit No. 6: Cellular Respiration

Students measure and record the rate of oxygen consumption (cellular respiration).

- Activity involves use of a respiration chamber
- Germinating seeds and non-germinating material are used as control samples
- Meets AP Science Practices 1, 2, 3, 6 and 7, and Big Idea 2
- This package conforms to 49 CFR 173.4 for domestic highway or rail transport only
- For 8 lab groups

Kit Includes:

- Pea seeds (1 pack)
- Plastic beads (1 pack)
- 15% potassium hydroxide (1 bottle)
- Non-absorbent, absorbent cotton (1 pack)
- Petroleum jelly sealant (1 tube)
- 8 trays
- 48 washers
- 24 rubber stoppers
- 24 respiration chambers
- 24 graduated pipets
- Teacher's manual
- Student study guides
- Grades 7 to 14



Cat. No.	Description	Quantity	Unit of Measure
S07057**	AP Biology Investigation Kit #6: Cellular Respiration	1	Each

Edvotek™ AP LAB 6: Cellular Respiration

Students use small respirometers to determine O₂ consumption.

- Students learn how to apply gas laws to the function of the microrespirometer
- Students will observe cell respiration of germinating seeds and describe the effects of temperature on the rate of cell respiration
- Class size: 10 lab groups
- Requires two hours over two lab periods



Cat. No.	Description	Quantity	Unit of Measure
S06884	Cellular Respiration Kit	1	Each

AP Biology Investigation Kit No. 9: Restriction Enzyme Analysis

In this lab students will understand the action and specificity of restriction enzyme. Students also learn the components involved in DNA electrophoresis, and the role of each component as it applies to the entire process of electrophoresis.

Students will perform electrophoresis on DNA samples treated with different restriction enzymes and construct a standard curve using a known DNA sample, while determining the approximate size of the DNA fragments in unknown samples.

- Meets AP Science Practices 3, 6, and Big Idea 3
- Class size: 8 lab groups or 32 students
- Grade 7 to 14



Cat. No.	Description	Quantity	Unit of Measure
S07059	AP Biology Investigation Kit No. 9: Restriction Enzyme Analysis	1	Each

Edvotek™ AP LAB 9: Biotechnology — Restriction Enzyme Analysis of DNA

For analysis of EcoRI cleavage patterns of lambda DNA.

- This experiment introduces the use of restriction enzymes as a tool to digest DNA at specific nucleotide sequences
- Bacteriophage lambda DNA has a linear structure and six Eco RI recognition sites
- Separation by agarose gel electrophoresis of an Eco RI digest of lambda DNA will yield six bands (five distinct bands, two are very close in size) corresponding to the DNA fragments
- 8 Gels



Cat. No.	Description	Quantity	Unit of Measure
S06887	Biotechnology Kit	1	Each



AP Biology Investigation Kit No. 7: Cell Division: Mitosis and Meiosis



Students will study the cellular steps involved in DNA replication and cell division in both mitosis and meiosis.

- Stages of mitosis in the preparation of plant root tips
- Crossing over in meiosis via Sordaria cultures
- Teacher's manual and student's guide included
- Materials for 32 students (8 groups of 4)

Kit Includes:

- 6.0M hydrochloric acid (30 mL)
- 1% toluidine blue (30 mL)
- Sand (500 g)
- Sordaria agar (200 mL)
- Sordaria mating agar (200 mL)
- Slides, coverslips (1 pack ea.)
- 8 forceps
- 16 plastic pipettes
- 20 petri dishes (sterile)
- 8 inoculating loops (sterile, disposable)
- 7 oz. cups (8)
- 10 disposable scalpels
- Coupon for perishable materials
- Grade 7 to 14

COMPLIANCE: 49 CFR 173.4, meets AP science practices 1, 5, 6, and 7 along with Big Idea 3

Cat. No.	Description	Quantity	Unit of Measure
S07062*	AP Biology Investigation Kit #7: Cell Division: Mitosis and Meiosis	1	Each

AP Biology Investigation Kit No. 8: Bacterial Transformation

Students genetically engineer bacteria through transformation with a plasmid that confers antibiotic resistance.



- Efficiency of the procedure is determined by examining the number of resistant bacteria
- Includes teachers manual and student study guide copymasters
- For 8 lab groups
- Grades 7 to 14

Recommended: Incubator (37°C). Requires: Large beaker, microwave (not necessary if melting agar in a waterbath), microfuge tube racks, hot plate or waterbath, markers, and container of ice.

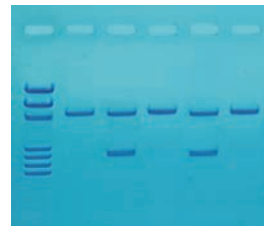
COMPLIANCE: Meets AP science practices 1, 3, 5, 6, and 7 and Big Idea 3

Cat. No.	Description	Quantity	Unit of Measure
S07058	AP Biology Investigation Kit #8: Biotechnology: Bacterial Transformation	1	Each

Edvotek™ Detection of the Influenza Virus Experiment Kit

Students perform two common tests (RIDT, RT-PCR) used to diagnose the flu in clinical settings.

- Complete in 90 minutes
- Kit is for 8 lab groups



Cat. No.	Description	Quantity	Unit of Measure
S29012	Detection of Influenza Kit	1	Each

Biotechnology

Edvotek™ Origami Organelles Plant Life Cycle Model



This model shows the stages of a plant life cycle and what happens at each step.

- The life cycle of a flowering plant takes it from a seed to a fully grown plant and back to a seed again
- Takes just 30 minutes to build the model
- Students build their models of a seed, seedling, tree, flower, bee, fruit and deer
- Utilize the models to learn about the germination, growth, flowering, pollination, fertilization, fruit formation, and seed dispersal
- Grades 4 to 12
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions (flower):** 5 in. x 4 in. (12 cm x 10 cm)
- **Download includes:** instructions, color and mono model templates, and classroom PowerPoint presentation
- **All you need:** paper, scissors, and tape



Cat. No.	Description	Quantity	Unit of Measure
S05716	Plant Life Cycle Model	1	Each

Edvotek™ Origami Organelles Nitrogen Cycle Model

NEW

This interactive model helps students learn about the nitrogen cycle.

- Students build their model using the colorful parts of the template
- Discover the features of the nitrogen cycle by visualizing connections as they make the model
- Takes about 30 minutes to build the model
- The model covers: nitrogen fixation (legumes, lightning and Haber-Bosch process), assimilation, ammonification (decay), nitrification, denitrification and combustion of fossil fuels. It also considers the human impact on the nitrogen cycle
- It can even be made into a colorful 3-dimensional classroom poster
- Grades 4 to 12
- How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions:** 26 in. x 20 in. (67 cm x 50 cm)
- Download includes:** instructions, templates, and classroom PowerPoint presentation
- All you need:** paper, scissors, and tape



Cat. No.	Description	Quantity	Unit of Measure
S05717	Nitrogen Cycle Model	1	Each

Edvotek™ Origami Organelles Climate Change Model

NEW

Students can engage with this colorful, easy-to-build model to learn about the effects of climate change, and discuss ideas for solving it.

- This unique model covers: rising sea levels, sea ice melting, glacial retreat, wildfires, pollution, extreme weather events, habitat loss, deforestation, desertification, ocean acidification, disruption to ecosystems and threats to low level coastlines
- Grades 4 to 12
- How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions:** 9 in. x 10 in. x 4 in. (23 cm x 25 cm x 10 cm)
- Download includes:** instructions, color and mono model templates, and PowerPoint presentation
- All you need:** paper, scissors and tape
- Grades 4 to 12



Cat. No.	Description	Quantity	Unit of Measure
S05718	Climate Change Model	1	Each

Edvotek™ Origami Organelles Carbon Cycle Model

NEW

Teach the carbon cycle using this colorful, interactive model.

- Students will build their model then study the carbon cycle components such as carbon stores, and carbon transfers
- Carbon transfers shown include photosynthesis, respiration, combustion of fossil fuels, volcanic eruptions, decomposition, erosion of sedimentary rock and diffusion from the ocean surface
- Grades 4 to 12
- How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions:** 8 in. x 6 in. x 4 in. (20 cm x 15 cm x 10 cm)
- Download includes:** instructions, model templates, and PowerPoint presentation
- All you need:** paper, scissors and tape



Cat. No.	Description	Quantity	Unit of Measure
S05719	Carbon Cycle Model	1	Each

Edvotek™ Origami Organelles Simple Animal Cell Model

NEW

Provides a fun introduction to animal cells for students of any age.

- Your students will enjoy learning about cells with this colorful model. The model covers all the main parts of cells (cell membrane, nucleus, chromosomes, mitochondria). For more advanced students, you can extend the model with optional parts (rough ER, smooth ER, and Golgi)
- Students make their cell model using the colorful parts working alone or in small groups. They can make a simple version or use the optional parts to show more features. It can be printed in color, or in mono on colored or white paper. Includes a full-color PowerPoint class presentation
- Grades 4 to 12
- How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions:** 7 in. x 5 in. (17 cm x 14 cm)
- Download includes:** instructions, model templates, and PowerPoint presentation
- All you need:** paper, scissors and tape



Cat. No.	Description	Quantity	Unit of Measure
S05720	Simple Animal Cell Model	1	Each

Edvotek™ Origami Organelles Simple Plant Cell Model

NEW

Provides a fun introduction to plant cells for students of any age.



- Your students will enjoy learning about cells with this colorful model. The model covers all the main parts of plant cells (cell membrane, cell wall, chloroplasts, nucleus, chromosomes, mitochondria). For more advanced students, you can extend the model with optional parts (rough ER, smooth ER, and Golgi)
- Students make their cell model using the colorful parts working alone or in small groups. They can make a simple version or use the optional parts to show more features. It can be printed in color, or in mono on colored or white paper
- Grades 4 to 12
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 7 in. x 5 in. (18 cm x 14 cm)
- **Download includes:** instructions, model templates, and full color PowerPoint class presentation
- **All you need:** paper, scissors, and tape

Cat. No.	Description	Quantity	Unit of Measure
S05721	Simple Plant Cell Model	1	Each

Edvotek™ Origami Organelles Simple Bacterial Cell Model

NEW

Students can build a bacterial cell model to gain insights into its structure and functions.



- Bacterial cells are one of the oldest forms of life on Earth and cause many human diseases
- The model shows your students the main structures of a bacterial cell: cell wall, cell membrane, genome, plasmid, flagellum. This easy to make model does not need any tape or glue to build
- Grades 4 to 12
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 7 in. x 2 in. (17 cm x 5 cm)
- **Download includes:** instructions, model templates, and full color PowerPoint class presentation
- **All you need:** paper, scissors and tape

Cat. No.	Description	Quantity	Unit of Measure
S05722	Simple Bacterial Cell Model	1	Each

Edvotek™ Origami Organelles Cell Structure Model

NEW

This colorful, easy-to-build model shows what makes animal, plant, bacterial, and fungal cells different from each other.



- To function, they have different combinations of subcellular structures (organelles)
- Your students make models out of the colorful parts of four different cells
- Utilize the model to look at what the subcellular structures do and compare and contrast the different types of cells
- The model covers the following: nucleus, chromosome, mitochondrion, chloroplast, vacuole, cell membrane, cell wall, cytoplasm, ribosomes, plasmids, and flagella
- Takes just 30 minutes to build the model
- Grades 4 to 12
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** Bacterial Cell length: 4 in. (11 cm)
- **Download includes:** instructions, model templates, and classroom PowerPoint presentation
- **All you need:** paper, scissors, and tape

Cat. No.	Description	Quantity	Unit of Measure
S05723	Cell Structure Model	1	Each

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Edvotek™ Origami Organelles Biology Bundle

NEW

Get all 83
Biology Origami
Organelles in
one convenient
set that can be
downloaded and
printed as often
as needed, at no
additional cost.

- Includes instructions, templates and presentations for these models:

Abdomen,
Alveoli, Amoeba,
Apoptosis,
ATP Synthase,
Anaerobic

Respiration and Fermentation, Antibodies, Biochemistry of Vision, Calvin Cycle, Carbon Cycle, Cell Membranes, Cell Nucleus, Cell Signaling, Chlamydomonas, Citric Acid Cycle, Colorful Chromosomes, Cool Chloroplasts, CRISPR-Cas9, Crucial Krebs and the Link Reaction, Digestive System, DNA Replication, DNA Structure, Easy Eye, Electron Transport Chain, Endoplasmic Reticulum, Enzymes, Euglena, Fermentation, Fertilization and Reproductive Technology, Frog Life Cycle, Fun with Flowers, Gene Cloning, Gluconeogenesis, Glucose Uptake by Small Intestine, Glycolysis, Golgi and Lysosome, Groovy Glycolysis, Human Brain, Human Ear, Human Eye, Human Heart, Human Kidney, Immune System, Lac Operon, Leaf Structure, Link Reaction/Pyruvate Oxidation, Liver and Spleen, Lungs, Lymph Node, Malaria, Mega Mitochondria, Mighty Mitochondria, Mitosis and Meiosis, Muscle Shuffle, Nephron, Nerve Cell, Nerve Impulses, Neuromuscular Junctions, Osmosis and Diffusion, Paramecium, Parasymphatic Nervous System, Phloem and Translocation, Photosynthesis Light Reactions, Polymerase Chain Reaction (PCR), Receptor Tyrosine Kinases (RTKs), Rod Photoreceptor Cell, Simple Animal Cell, Simple Bacterial Cell, Simple Plant Cell, Skin, Spinal Nerves, Stem Cells, Super Simple Cell, Sympathetic Nervous System, Synapses, Teeth, Transcription, Translation and Protein Synthesis, Urinary System, Villus, Water Cycle, Xylem, Zika Virus

- Grades 4 to 12
- How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Due to the number of files in this set, 9 email links are sent within a few hours of purchase
- Download Includes:** Instructions and color and mono model templates. PowerPoint classroom presentations are included for all models.
- All You Need:** Paper, scissors, glue or tape

Cat. No.	Description	Quantity	Unit of Measure
S05724	Biology Bundle	1	Each



Edvotek™ Origami Organelles DNA Structure Model

NEW

Teach DNA structure as part of introductory or advanced lesson plans.

- Teaches the importance of complementary base pairing, nucleotide structure, double-helix shape, 5' and 3' ends, antiparallel strands, sugar-phosphate backbone, purines and pyrimidines and DNA sequence
- Students can build base pairs then combine them to make the DNA double helix
- Models can be built in different lengths and in any sequence needed to support your lesson plan
- Takes about 20 minutes to make a 12 base pair model
- Grades 4 to 12
- How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions:** DNA strand: 17 in. x 4 in. (43 cm x 10 cm)
- Download includes:** instructions, color and mono model templates and PowerPoint presentation
- All you need:** paper, scissors and tape



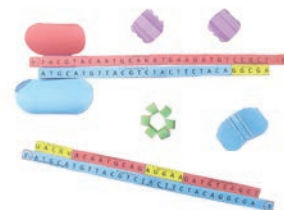
Cat. No.	Description	Quantity	Unit of Measure
S05725	DNA Structure Model	1	Each

Edvotek™ Origami Organelles DNA Replication Model

NEW

Engage students in introductory or advanced DNA replication lesson plans using this easy-to-build model.

- Students learn about the enzymes involved in DNA replication, the importance of RNA primers, leading and lagging strands, and are able to complete an option proofreading activity
- Takes about 20 minutes to make a 12 base pair model
- Grades 4 to 12
- How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions:** 14 in. (35 cm) long
- Download includes:** instructions, model templates, and PowerPoint presentation
- All you need:** paper, scissors, and tape



Cat. No.	Description	Quantity	Unit of Measure
S05726	DNA Replication Model	1	Each

Edvotek™ Origami Organelles Gene Cloning Model

NEW

This colorful, interactive model helps students learn about gene cloning and genetic engineering.

- Students can make a plasmid model from base pairs, perform a restriction enzyme digest, and add a gene insert
- Insert can represent either the insulin or green fluorescent protein (GFP) genes
- Students learn about plasmid structure, use of vectors, marker genes, restriction enzymes recognition sites, sticky ends, multiple cloning sites, and promoters
- Takes about 20 minutes to make if divided between 5 groups of students. Can be kept intact and reused once assembled
- Grades 4 to 12
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 16 in. (40 cm) diameter
- **Download includes:** instructions, color and mono model templates and PowerPoint presentation
- **All you need:** paper, scissors, and tape



Cat. No.	Description	Quantity	Unit of Measure
S05727	Gene Cloning Model	1	Each

Edvotek™ Origami Organelles Lac Operon Model

NEW

Give students a hands-on way to learn about and explain gene regulation in *E. coli*.

- The *lac* operon consists of 3 genes that the bacteria *E. coli* use to utilize lactose as a food source. The genes are only switched on when lactose is present
- Your students will make a model of the *lac* operon and use it to see how bacteria are able to control these genes. The model covers the *lac* repressor, RNA polymerase, operator, promoter and the *lacZ*, *lacY* and *lacA* genes and their products
- Grades 4 to 12
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 19 in. x 7 in. (48 cm x 18 cm)
- **Download includes:** instructions, model templates, and PowerPoint presentation
- **All you need:** scissors and tape



Cat. No.	Description	Quantity	Unit of Measure
S05728	Lac Operon Model	1	Each

Edvotek™ Origami Organelles Transcription Model

NEW

Use this colorful, interactive model to teach the principles of transcription.

- Transcription is how the genetic information stored as DNA in the nucleus is copied into RNA so it can be used to make proteins
- Your students will make a model of a DNA template and transcribe it into messenger RNA. The model covers the role of promoters, transcription factors, and RNA polymerase. RNA processing is also covered including RNA splicing, exons, introns, poly-A-tail and 5' cap
- Grades 4 to 12
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 25 in. x 10 in. (64 cm x 26 cm)
- **Download includes:** instructions, model templates, and PowerPoint presentation
- **All you need:** paper, scissors, and tape



Cat. No.	Description	Quantity	Unit of Measure
S05729	Transcription Model	1	Each

Edvotek™ Origami Organelles Translation and Protein Synthesis Model

NEW

Teach protein synthesis and ribosomes.

- Ribosomes are the factory workers of the cell. Your students will build their own model ribosome out of paper that they can hold in the palm of their hand. They will then use the model to make a peptide from five amino acids using transfer RNAs (tRNA) following a messenger RNA (mRNA) sequence
- Covers: translation, protein synthesis, codons, anticodons, messenger RNA (mRNA), transfer RNA (tRNA). Useful as homework or classroom activity
- Grades 4 to 12
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 5 in. x 3 in. x 4 in. (13 cm x 7 cm x 10 cm)
- **Download includes:** instructions, model templates, and colorful PowerPoint classroom presentation
- **All you need:** paper, scissors, and tape



Cat. No.	Description	Quantity	Unit of Measure
S05730	Translation and Protein Synthesis Model	1	Each

Edvotek™ Origami Organelles Mitosis and Meiosis Model

NEW

Students will build and use the model to perform the stages of cell mitosis and meiosis.

- **Mitosis:** Students will perform chromosome alignment and segregation, and learn about the cell cycle as they make two diploid daughter cells
- **Meiosis:** Students will carry out independent assortment and crossing over while creating four haploid daughter cells
- **Grades 4 to 12**
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** largest chromosome 12 cm (5 in.) long
- **Download includes:** instructions, model templates, and PowerPoint presentation
- **All you need:** scissors and tape



Cat. No.	Description	Quantity	Unit of Measure
S05731	Mitosis and Meiosis Model	1	Each

Edvotek™ Origami Organelles ELISA Model

NEW

Show students how three types of ELISA tests detect viruses and help reduce the spread of infectious diseases, like coronavirus.

- Early detection of an infectious disease such as coronavirus is crucial to reducing the spread of such diseases
- ELISA relies on the use of monoclonal and polyclonal antibodies that are used together to amplify a small signal
- The model shows how primary antibodies, secondary antibodies, and detection works in direct ELISA, indirect ELISA and sandwich ELISA
- Time to build model takes about 30 minutes
- **Grades 4 to 12**
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 3 in. x 2 in. (8 cm x 5 cm)
- **Download includes:** instructions, color and mono model templates, and classroom PowerPoint presentation
- **All you need:** paper, scissors, tape



Cat. No.	Description	Quantity	Unit of Measure
S05732	ELISA Model	1	Each

Edvotek™ Origami Organelles Coronavirus Model

NEW

Teach the structure and functions of the SARS-CoV-2 virus that causes COVID-19 and its variants.

- The outbreak of coronavirus (2019-nCoV) highlights the importance of understanding how such viruses infect us and how we can use this understanding to develop vaccines and medicines
- The model includes the viral envelope, RNA genome, spike protein, membrane protein, envelope protein and the enzymes replicase and protease
- Your students will learn about coronavirus structure and life cycle and provides a good starting point to discuss the challenges that are caused by novel virus strains
- It can also be used as an introduction to general virus structure for all levels of students
- **Grades 4 to 12**
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 6 in. (15 cm) in diameter
- **Download includes:** instructions, model templates and PowerPoint presentation
- **All you need:** paper, scissors, and tape



Cat. No.	Description	Quantity	Unit of Measure
S05733	Coronavirus Model	1	Each

Edvotek™ Origami Organelles CRISPR Model

NEW

Help students gain insight into genome editing.

- CRISPR is a genetic engineering technique that makes editing genomes easy and inexpensive
- It is based on a type of immune system found in many types of prokaryote
- Students first make 3D models of the components of CRISPR - the enzyme Cas9 and guide RNAs
- Next, they use these to see how genome editing is done. Making the model and carrying out the activity makes CRISPR easy to understand
- **Grades 4 to 12**
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 10 in. x 7 in. (26 cm x 18 cm)
- **Download includes:** instructions, model templates, and full color PowerPoint class presentation
- **All you need:** paper, scissors, and tape

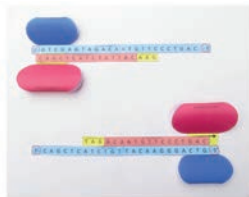


Cat. No.	Description	Quantity	Unit of Measure
S05734	CRISPR Model	1	Each

Edvotek™ Origami Organelles Polymerase Chain Reaction (PCR) Model

NEW

Use this colorful model to help your students understand PCR.



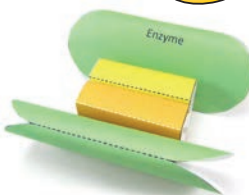
- They learn about the importance of Taq polymerase, that DNA is only synthesized in the 5' to 3' direction, DNA primers, the steps of PCR - denaturing, annealing and extension. Compare PCR and DNA replication using the DNA replication model
- Grades 4 to 12
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** DNA Template 14 in. (35 cm) long
- **Download includes:** instructions, model templates, and PowerPoint presentation
- **All you need:** paper, scissors, and tape

Cat. No.	Description	Quantity	Unit of Measure
S05735	Polymerase Chain Reaction (PCR) Model	1	Each

Edvotek™ Origami Organelles Enzymes Model

NEW

This easy to make model gives your students a way to visualize how enzymes catalyze biochemical reactions inside our cells.



- After making a model, use it to look at how enzymes speed up reactions of substrates in their active sites to produce products
- Then use the model to see how inhibitors work and how enzymes are regulated
- Covers: enzyme substrate interaction, active site, catalytic cycle, competitive inhibitors, non-competitive inhibitors, allosteric activators, allosteric inhibitors, and cooperativity
- Grades 4 to 12
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 4 in. x 5 in. (11 cm x 13 cm)
- **Download includes:** instructions, color and mono model templates, and classroom PowerPoint presentation
- **All you need:** paper, scissors, and tape

Cat. No.	Description	Quantity	Unit of Measure
S05736	Enzymes Model	1	Each

Edvotek™ Origami Organelles Fermentation Model

NEW

This model shows students how enzymes perform fermentation, and teaches students the different types of fermentation and their relation to protein structure.



- Anaerobic fermentation is essential to regenerate NAD⁺ to keep glycolysis working
- When carried out by microbes such as yeast it produces alcohol and carbon dioxide as byproducts that are used in brewing and baking
- In our muscles, fermentation instead produces lactic acid that must be removed later on
- Grades 4 to 12
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 13 in. x 7 in. (33 cm x 18 cm)
- **Download includes:** instructions, color and mono model templates, and PowerPoint presentation
- **All you need:** paper, scissors, glue or tape

Cat. No.	Description	Quantity	Unit of Measure
S05737	Fermentation Model	1	Each

Safeguarding Every Step

Explore school safety and security solutions for supporting students and educators from the curbside to the classroom.



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Edvotek™ Origami Organelles Amino Acids Model

Model all 20 amino acids with the Origami Organelles Amino Acids Model.

- Amino acids are the basic units of proteins that are essential for life
- Their sequence in proteins is encoded by the genetic code of DNA
- They have two functional groups: carboxylic acid and an amino group
- Each amino acid also has a unique side chain (or R group)
- Amino acids are easy to understand with our unique molecular models that show how electrons behave during bond formation
- Your students first build their easy to make paper models of atoms and electrons
- They use these to form organic molecules by sharing electrons between the atoms
- The differently colored electrons make it easy to see how the bonds are formed
- The models can then be used to show the structure of the 20 naturally occurring amino acids, their physical properties and the formation of peptide bonds
- Clear instructions are provided in the PowerPoint presentation
- Grades 4 to 12
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** Model atom diameter 4 in. (10 cm)
- **Download includes:** instructions, model templates, and Powerpoint presentation
- **All you need:** paper, scissors, and tape



Cat. No.	Description	Quantity	Unit of Measure
S05738	Amino Acids Model	1	Each

Edvotek™ Origami Organelles Cell Signaling Model

Make cell signaling easy to understand with the interactive Origami Organelles Cell Signaling Model.

- The fight or flight response relies on a fast reaction to the hormone adrenaline (epinephrine)
- One of the responses for liver and muscle cells is to quickly break down glycogen into glucose as an energy source
- Cell signaling is crucial for this to happen
- Your students will make a model of the cell signaling pathway that leads from the hormone receptor to the enzyme that breaks glycogen down
- It covers G protein-coupled receptor, G protein, cyclic AMP as a second messenger, phosphorylation, and protein structure
- By using dynamic models what can seem complex becomes clear
- Grades 4 to 12
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 11 in. x 9 in. (28 cm x 23 cm)
- **Download includes:** instructions, model templates, and PowerPoint presentation
- **All you need:** paper, scissors, and tape



Cat. No.	Description	Quantity	Unit of Measure
S05739	Cell Signaling Model	1	Each

Edvotek™ Origami Organelles Synapses Model

This hands-on membrane modeling system helps students to understand how synapses work.

- After making their models, your students will fuse a synaptic vesicle to the presynaptic membrane and release a neurotransmitter. Once this crosses the synaptic cleft and binds to the receptor, ion channels open and cause changes in the postsynaptic membrane that may lead to an action potential if the threshold is passed
- Covers synapse structure, role of neurotransmitter, summation, inhibitory and excitatory synapses
- Grades 4 to 12
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 10 in. (25 cm) across
- **Download includes:** instructions, color and mono model templates, and PowerPoint presentation
- **All you need:** paper, scissors, and tape



Cat. No.	Description	Quantity	Unit of Measure
S05740	Synapses Model	1	Each

Edvotek™ Origami Organelles Frog Dissection Model

Use this detailed model to help students learn about organ systems, to prepare students for a frog dissection, or as an alternative to dissection.

- With this model, your students can carry out a dissection using our detailed paper model of a frog. Use to prepare students for a dissection or as an alternative to a real dissection
- Students assemble the easy-to-make frog using the colorful parts working alone or in small groups
- Build the frog and then add the organs to the model
- The model can be used to identify the organs of a frog including the heart, lungs, liver, gall bladder, spleen, esophagus, stomach, pancreas, small intestine, large intestine, urinary bladder, kidneys, adrenal body, fat bodies, cloaca, male and female parts
- Takes about 30 minutes for a group of students to make the model
- Grades 4 to 12
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 15 in. x 10 in. (38 cm x 27 cm)
- **Download includes:** instructions, color and mono model templates, and classroom PowerPoint presentation
- **All you need:** paper, scissors, and tape



Cat. No.	Description	Quantity	Unit of Measure
S05741	Frog Dissection Model	1	Each

Edvotek™ Origami Organelles Fetal Pig Dissection Model

Use this detailed model to teach students about key body organ systems, to prepare students for fetal pig dissection, or as an alternative to dissection.

- With this model, your students can carry out a dissection using a detailed paper model of a fetal pig. Use to prepare students for a dissection or as an alternative to a real dissection
- Students make the model of a fetal pig out of the colorful parts
- Build the pig and then add the organs to the model
- The model shows how a fetal pig differs from an adult animal covering the fetal circulation and umbilical cord
- Carry out a dissection to see how the parts fit together
- It can be used to look at different organ systems and for comparative anatomy
- Takes about 60 minutes to make the model but can be carried out over a series of sessions
- The model can be used to look at the anatomy of the major body systems. It covers the nervous system (brain and spinal cord), circulatory system (heart and major blood vessels), respiratory system (lungs and trachea), digestive system (mouth, esophagus, stomach, small intestine, spiral colon, rectum, pancreas, liver, gallbladder), excretory system (kidneys and bladder) and male and female reproductive systems
- For use in class or for distance learning at home
- Grades 4 to 12
- **How it works:** The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 14 in. x 10 in. (35 cm x 24 cm)
- **Download includes:** instructions, color and mono model templates, and classroom PowerPoint presentation
- **All you need:** paper, scissors, and tape



Cat. No.	Description	Quantity	Unit of Measure
S05742	Fetal Pig Dissection Model	1	Each



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Genetics

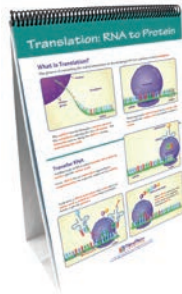
Chromosomes, Genes and DNA Flip Chart Set

Introduce and review standards-based science concepts. The set features 10 double-sided, laminated charts, each 12 x 18 in. and spiral-bound on a durable, free-standing easel.

- Side 1 of each chart features a graphic overview of topic
- Side 2 serves as "write-on/wipe-off" activity chart
- Also includes Activity Guide featuring copy-masters and exercises
- Grades 6 to 10

Provides comprehensive coverage of the following topics:

- Chromosomes
- Genes
- DNA
- From DNA to Protein
- DNA Transcription: DNA to RNA
- Translation: RNA to Protein
- The Genetic Code
- DNA/RNA Structure
- Mutations
- Vocabulary Review



Cat. No.	Description	Quantity	Unit of Measure
S04876	Chromosome Flip Chart	1	Each

Chromosomes 3D Model Kit

Assemble and use 3D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grade 6 to 10



Cat. No.	Description	Quantity	Unit of Measure
S81446	Chromosome 3D Model	1	Each

United Scientific™ DNA Models and Kits

Accurately depict a 16-base-pair section of DNA.

- Phosphate-deoxyribose backbone and four bases represented by custom plastic moldings
 - Shows shapes of molecules in scale and illustrates bonding between them
 - Supported by a central pillar, which can rotate on a circular stand
- Pre-assembled DNA Model (S05910)**
- Handedness of the backbone chains and the relative sizes of the major and minor grooves in the relaxed molecule are correctly portrayed



DNA Model Kits (S06993 and S06991)

- Built to a scale of 10 cm to 1 nm
- Dimensions: 25 x 9 x 9 in. (63.5 x 22.9 x 22.9 cm)
- **S06993:** Single Model, unassembled
- **S06991:** Four models, one assembled, three unassembled

Cat. No.	Description	Quantity	Unit of Measure
S05910	DNA Model, Pre-Assembled	1	Each
S06993	DNA Model, Unassembled	1	Each
S06991	DNA Model Kit	1	Each

Eisco™ DNA Model Kit

Construct a three dimensional model of DNA that can be rotated on its base.

- Easy to construct, the colorful bases snap together in the correct sequence, and the pairs attach to a center rod representing hydrogen bonds
- Two flexible strands signifying alternating pentose and phosphate units attach to the end of each pair, forming the double helix
- Emphasizes the base pair sequence and function of DNA
- Once completed, model can be rotated on its sturdy base
- Includes enough materials to construct one models
- Supplied with manual
- Dimensions (L x W x H): 5.125 x 5.125 x 17.75 in. (13 x 13 x 45 cm)
- Approx. weight 250 g



Cat. No.	Description	Quantity	Unit of Measure
S27904	DNA Model Kit	1	Each

DNA Structure 3D Model Kit

Assemble and use 3D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grades 6 to 10
- Dimensions (L x W): 12 x 9 in.



Cat. No.	Description	Quantity	Unit of Measure
S81451	DNA Structure 3D Model	1	Each

DNA Replication 3D Model Kit

Assemble and use 3D models to visualize and investigate key science processes.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grades 6 to 10
- Dimensions (L x W): 12 x 9 in.



Cat. No.	Description	Quantity	Unit of Measure
S81450	DNA Replication 3D Model	1	Each

Transcription 3D Model Kit

Assemble and use 3D models to visualize and investigate key science processes.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Dimensions (L x W): 12 x 9 in.
- Grades 6 to 10



Cat. No.	Description	Quantity	Unit of Measure
S81465	Transcription 3D Model Kit	1	Each

Translation and Protein Synthesis 3D Model Kit

Assemble and use 3D models to visualize and investigate key science processes.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Dimensions (L x W): 12 x 9 in.
- Grades 6 to 10



Cat. No.	Description	Quantity	Unit of Measure
S81466	Translation and Protein Synthesis 3D Model Kit	1	Each

Gene Cloning 3D Model Kit

Assemble and use 3D models to visualize and investigate key science processes.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grades 6 to 10



Cat. No.	Description	Quantity	Unit of Measure
S81456	Gene Cloning 3D Model Kit	1	Each

RNA 12-Base Kit

Provides hands-on investigation into protein synthesis.

Easily assemble this single strand molecule which consists of the four bases, as in DNA, and Uracil. Contains enough material to make all 64 codons.



Cat. No.	Description	Quantity	Unit of Measure
S68291A	RNA Kit	1	Each

Edvotek™ Genes in a Tube™

Students can transfer their DNA to a tube that can be worn as a pendant.

- Students extract and precipitate their own DNA
- Transfer to tube or save on a DNA report card
- Time range: 30 min.
- Class size: 26 students

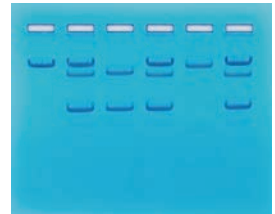


Cat. No.	Description	Quantity	Unit of Measure
S68635	DNA Report Card	1	Each

Edvotek™ Sickle Cell Gene Detection

Gain an understanding of the effect of mutations on health and disease.

- Genetically inherited diseases in humans can be caused by a single nucleotide mutation resulting in a change. Such a substitution can affect the structure and function of a critical protein, rendering it partially or completely nonfunctional. A classic example is hemoglobin in sickle cell anemia
- Agarose gel-based experiment designed for DNA staining and visualization with InstaStain™ Methylene Blue
- Demonstrates the use of a restriction enzyme that discriminates between the normal and sickle cell hemoglobin genes
- This experiment does not contain human DNA
- 8 Gels
- Time range: 45 min.



Cat. No.	Description	Quantity	Unit of Measure
S94670	Genetically Inherited Disease Detection	1	Each

Edvotek™ Exploring Biotechnology with Green Fluorescent Protein

Four experimental modules are combined into one experiment to provide a comprehensive biotechnology exploration focusing on the green fluorescent protein (GFP).

- Bacterial cells are transformed to express the green fluorescent protein (GFP)
- Transformed cells are then grown and the GFP is purified by column chromatography
- The purity of the protein fractions are analyzed by SDS polyacrylamide electrophoresis

Experiment times:

- Module I: Transformation, 45 minutes
- Module II: Isolation of GFP, 45 minutes
- Module III: Purification of GFP by Chromatography, 45 minutes
- Module IV: Analysis by GFP by Denaturing SDS Gel Electrophoresis, one hour



Cat. No.	Description	Quantity	Unit of Measure
S05657	Exploring Biotechnology Kit	1	Each

Edvotek™ The Mystery of the Crooked Cell

Demonstrates detection of the mutation that causes sickle cell anemia.

- Students use electrophoresis to separate dyes that represent patient samples and controls. Developed in partnership with Boston University School of Medicine
- 10 Gels
- Time range: 45 min.



Cat. No.	Description	Quantity	Unit of Measure
S96377	Mystery of the Crooked Cell	1	Each

Edvotek™ In Search of My Father

Solve the mystery of two boys separated from their parents a decade ago.

- Students identify the biological mother by mitochondrial DNA
- Identify the biological father using chromosomal DNA
- Complete in 45 minutes



Cat. No.	Description	Quantity	Unit of Measure
S05713	In Search of My Father	1	Each

Edvotek™ Cholesterol Diagnostics

Study cholesterol-based diseases.

- In this experiment, a simulated genetic test for familial hypercholesterolemia (FH) is demonstrated in which patients are tested for a DNA polymorphism linked to the FH gene
- Develop an understanding of the genetics and DNA-based diagnostics of cholesterol-based diseases
- This experiment does not contain human DNA
- 8 gels

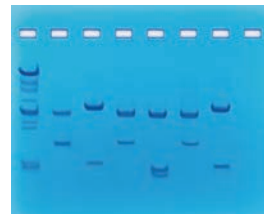


Cat. No.	Description	Quantity	Unit of Measure
S94608	Cholesterol Diagnostics	1	Each

Edvotek™ DNA Fingerprinting Using Restriction Enzymes

Learn about restriction enzymes.

- The objective of this simulated forensic analysis is to develop an understanding of DNA fingerprinting by use of restriction enzymes
- Hypothetical crime scene samples are provided in addition to DNA samples, restriction enzymes and reaction buffer, to digest suspect's DNA
- Digestion products are separated by agarose gel electrophoresis
- Students determine the guilty suspect through identification of the unique restriction enzyme fragmentation patterns
- Does not contain human DNA
- Some components require refrigeration, some require freezing
- 6 gels

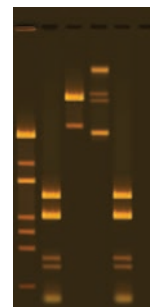


Cat. No.	Description	Quantity	Unit of Measure
S94610	Restriction Enzymes Fingerprinting DNA	1	Each

Edvotek™ Analysis of DNA Methylation using Restriction Enzymes Experiment Kit

Training kit to understand mechanisms of DNA methylation.

- Explores effects of DNA methylation on restriction enzyme activity
- Plasmid DNA will be digested with the restriction enzymes *DpnI* and *DpnII*
- Methylated and unmethylated DNA will produce restriction fragments that are distinct from one another
- Restriction fragments are analyzed using agarose gel electrophoresis
- Time range: 2.5 hr.



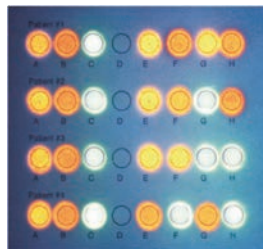
Cat. No.	Description	Quantity	Unit of Measure
S42875	Analysis of DNA Methylation	1	Each

Edvotek™ DNA/ RNA Microarrays

Membrane microarray technology enables scientists to screen large numbers of samples in one assay.

Benefit from cost savings by reducing the sample size, while saving time and yielding accurate results.

- Students apply simulated DNA and RNA samples to a membrane to screen for positive and negative samples
- Complete in one hour
- For 10 groups



Cat. No.	Description	Quantity	Unit of Measure
S05648	DNA/RNA Microarrays	1	Each

Edvotek™ Detection of Genetically Modified Organisms Kit

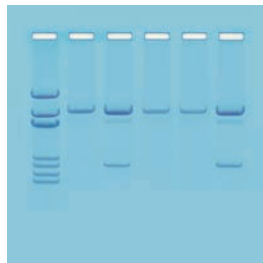
Students use agarose gel electrophoresis to explore molecular methods used by scientists to identify genetically modified organisms.

- No thermal cycler is required
- Students are encouraged to explore controversy surrounding use of genetically modified organisms
- For 8 gels
- Completes in 60 minutes

Includes: instructions, Ready-to-Load™ QuickStrip™ DNA samples, UltraSpec-Agarose™ powder, practice gel loading solution, electrophoresis buffer, InstaStain™ Blue and FlashBlue™ stain, calibrated pipette, and microtipped transfer pipettes

Materials needed: electrophoresis apparatus, power supply, automatic micropipet and tips, balance, microwave or hot plate, white light visualization system

Storage: stable at room temperature. Recommended to store Ready-to-Load QuickStrip™ samples in refrigerator.



Cat. No.	Description	Quantity	Unit of Measure
S21121	Detection of Genetically Modified Organisms Kit	1	Each

Eisco™ Genetic Traits Taste Testing Strips

Demonstrate how the ability to taste a certain compound is based on heredity.

Is it sweet, salty, bitter or tasteless?

- Depending on their own genetics, students will experience different tastes from the test strips
- PTC — seven out of 10 students will detect a definite taste; remainder will not
- Sodium benzoate — genetics determine if the paper tastes sweet, salty, bitter or tasteless. Students that taste PTC may not be able to taste thiourea.
- Control strips have no PTC, sodium benzoate or thiourea
- Grades 7 to 12



Cat. No.	Description	Quantity	Unit of Measure
S85287A	PTC Paper Taste Strip	100	Pack
S85286A	Control Paper Taste Strip	100	Pack
S85288A	Sodium Benzoate Paper Taste Strip	100	Pack
S85289A	Thiourea Paper Taste Strip	100	Pack

Electrophoresis

DNA Fingerprinting Electrophoresis Lab Activity Educational Kit

Students will learn about restriction enzymes and importance of these enzymes in DNA fingerprinting process.

Experiments to perform agarose gel electrophoresis on four DNA samples to determine if DNA from suspects matches that of DNA found at a crime scene.

- Contains enough materials for 8 groups
- Includes teacher's guide and student study copymasters
- Grades to 14



Cat. No.	Description	Quantity	Unit of Measure
S28493	DNA Fingerprinting Electrophoresis Kit	1	Each

Edvotek™ DNA Fingerprinting: Identification of DNA by Restriction Fragmentation Patterns

Reveals techniques used in forensic and medical procedures.

- Basic concepts of DNA fingerprinting are featured in this lab
- Students will compare crime scene DNA with suspect DNAs. Fingerprint patterns are separated by agarose gel electrophoresis and the students determine who may have done it!
- 8 Gels

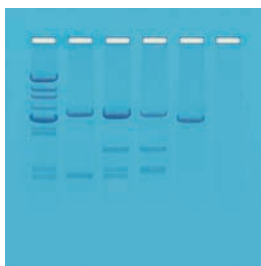


Cat. No.	Description	Quantity	Unit of Measure
S11109	DNA Fingerprinting: Identification of DNA	1	Each

Edvotek™ DNA Paternity Testing Simulation Kit

Introduces students to the use of DNA fingerprinting in a simulated paternity determination.

- A child's DNA fingerprint is compared to their parents
- 8 gels
- Complete in 45 minutes
- The experiment does not contain human DNA

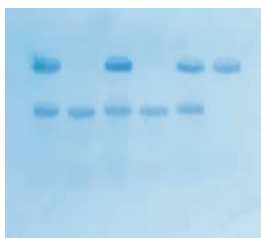


Cat. No.	Description	Quantity	Unit of Measure
S11114	DNA Paternity Testing Simulation Kit	1	Each

Edvotek™ In Search of the Sickle Cell Gene by Southern Blot

Use Southern blots to detect mutations while gaining insight about the effects of sickle cell anemia.

- Southern blotting is an important technique used widely in clinical genetics and research. By transferring DNA from an agarose gel onto a membrane, students will be able to analyze and identify the DNA bands on a gel.
- Your students will use Southern blotting to find a point mutation in the hemoglobin gene that indicates Sickle Cell Anemia
- Time Range: Electrophoresis: 45 min.; Blot: overnight; Stain and Destain: 10 min.
- Class size: 5 lab groups

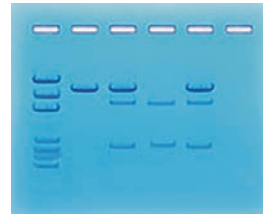


Cat. No.	Description	Quantity	Unit of Measure
S11315ND	In Search of the Sickle Cell Gene	1	Each

Edvotek™ Cancer Gene Detection

In this experiment, students determine a pedigree for a family suspected to be carriers of mutations in their p53 genes. A DNA test indicates their likelihood of developing cancer.

- The p53 gene is a tumor-suppressing gene that prevents uncontrolled cell division of cancer cells. Mutations in the p53 gene are present in more than 50% of cancers. Testing people for mutations in their p53 gene can indicate an increased risk in developing cancer. These tests raise intriguing ethical questions for both the individual tested and the family of an individual who chooses to be tested.
- Quantity: 8 Gels
- Time Range: 45 min.



Cat. No.	Description	Quantity	Unit of Measure
S66828	Cancer Gene Detection	1	Each

Edvotek™ Construction and Cloning of DNA Recombinant

To study gene structure, function, and to enhance gene expression.

- Activity is divided into five modules
- Clones are constructed by ligation of a vector and a fragment insert
- The constructs are then transformed into competent cells and the cells are grown and selected for resistance
- Plasmid DNA is then isolated from the transformants, cleaved with restriction enzymes, and analyzed by agarose gel electrophoresis
- Recommended for college level courses
- For 5 lab groups
- Time: enzyme digestion 30 min., gel preparation 30 min., electrophoresis 45 min., staining 15 min. and destaining 20 min.

Activity requirements: Electrophoresis tank and power supply, automatic micropipet with tips, balance, microwave or hot plate, waterbath, large weigh boats for staining, UV transilluminator, floating racks for microtest tubes, pipet pump or bulb, 5 or 10 mL pipets, laboratory glassware, metric rulers, distilled water and ice



Cat. No.	Description	Quantity	Unit of Measure
S11301ND	Construction and Cloning of DNA Recombinant	1	Each

Edvotek™ Principles and Practice of Agarose Gel Electrophoresis

Introduce basic concepts and procedures of agarose gel electrophoresis with this simple, safe, fast, and colorful experiment.

- Demonstrate to your class how electrophoresis separates molecules on the basis of size and charge
- 8 Gels



Cat. No.	Description	Quantity	Unit of Measure
S11101	Principle and Practice - Agarose Gel	1	Each

Edvotek™ Demonstration DNA Electrophoresis LabStation™

A basic electrophoresis unit that is suitable for instructor-led presentations.

- Class size: 4 students

Includes: M12 Complete Electrophoresis Package (S90242ND); DuoSource™ 75 Power Supply; Fixed Volume MiniPipette 35 µL (S05658); Yellow Micropipet Tips, 1 - 200 µL /2 Racks of 96 (S06689); Whose DNA Was Left Behind? Kit (S94591)



Cat. No.	Description	Quantity	Unit of Measure
S68644	Demonstration DNA Electrophoresis	1	Each

Edvotek™ EDGE™ Integrated Electrophoresis System

NEW

Merges an electrophoresis chamber, power supply and blue light into a single, safe, easy-to-use apparatus.

- Enables real-time visualization of DNA migration
- Integrated electrophoresis chamber, power supply & blue light
- Dual 100/150 volt modes w/ automatic safety cutoff switch
- Includes 10 x 7 cm gel tray, rubber end caps & (2) 6/8 tooth combs
- Permanent platinum electrodes - no replacement required
- built-in fan & ventilated design prevent condensation
- Compatible with SYBR™ Safe, GelGreen™ & other blue light-reactive dyes
- Universal voltage for worldwide use
- Grade: 8 to Undergraduate
- Age 14-20

WARRANTY: 3 year



Cat. No.	Description	Quantity	Unit of Measure
S52000	EDGE Electrophoresis System	1	Each

Edvotek™ MV10 Protein Electrophoresis Apparatus

Seamless vertical electrophoresis unit is designed for separation of proteins on a single polyacrylamide gel.

Redesigned MV10 vertical protein electrophoresis unit capable of holding one vertical polyacrylamide gel. The unit has color coded parts to ensure proper orientation.

- Gel support cassette clip - holds gel securely, allows for easy placement and removal of gel
- New, sleek design
- Domed lid with sturdy overmold grip feature
- Modified shape improves gel running speed by 10-15%
- Stabilizing feet raise the unit off the bench to promote cooling and improve stabilization
- Placement of color-coded anode/cathode sides completely eliminates the chance of improper or reverse lid placement
- Electrode lead 90° right angle shape improves stability by lowering the overall profile
- Patent pending

WARRANTY: Manufacturer limited lifetime warranty and free technical support



Cat. No.	Description	Quantity	Unit of Measure
S90257ND	MV10 Protein Vert EP Apparatus	1	Each

Edvotek™ M12 Complete™ Electrophoresis Package



Student-friendly horizontal electrophoresis apparatus for DNA, dye, and protein agarose gels. Includes trays, combs, and end caps.

- The package supports one or two student groups
- Students can use two standard length gel trays for experiments that require less separation, or one long gel tray for experiments that require more separation
- Students see results in 30-40 minutes
- Volume Buffer 400 mL

WARRANTY: Lifetime

Cat. No.	Description	Quantity	Unit of Measure
S90242ND	M12 Dual Electrophoresis Apparatus	1	Each

Edvotek™ M36 HexaGel Electrophoresis Apparatus



Apparatus allows students to run six gels and separate up to 36 samples simultaneously.

Six groups of students can load their own individual gels and six gels are run together for 30-40 minutes. Eliminate cumbersome gel tray taping and pour gels quickly and easily with our innovative gel tray sealing rubber end caps.

- New, sleek design
- Contoured lid enhances visualization
- Vented base
- Color coded push tabs
- Pour spout to pour out used buffer
- Replaceable electrode modules
- Volume Buffer 1,000 mL

Cat. No.	Description	Quantity	Unit of Measure
S11515A	HexaGel Electrophoresis Apparatus	1	Each

fisherbrand Large Gel Electrophoresis System

Provide leak-free casting in a 20 x 25 cm gel tray with six comb positions.



Improve resolution in Northern and Southern blotting of large gels and multiple samples.

- Available with same self-contained buffer recirculation method as Midigel System (FB-SB-1316)
- Run up to 36 samples per comb position with supplied combs
- Permit up to four sets of samples to be run equal distances on the same gel
- Allow shorter gels to be poured when used with accessory wall comb
- Gel size: 20 x 25 cm, Buffer volume: 2.3 L
- Dimensions (L x W x H): 14.7 x 11 x 4 in. (37.5 x 28 x 10 cm)
- May also be used with programmable power inverter for field inversion electrophoresis

Cat. No.	Description	Quantity	Unit of Measure
FB-SB-2025	Large Electrophoresis System	1	Each

fisherbrand Midigel Electrophoresis System

Provide leak-free gel casting in 13 x 16 cm gel tray with two comb positions.



Run up to 32 samples on one gel with combs supplied.

- Available with buffer recirculation method that prevents ionic depletion on long gel runs, keeps ionic gradients from distorting results when multiple sample series are run simultaneously, and prevents pH changes that can cause problems in RNA gels
- Buffer volume: 800 mL
- Can run up to 48 samples on a gel with accessory combs

Cat. No.	Description	Quantity	Unit of Measure
FB-SB-1316	Midigel Electrophoresis System	1	Each

Edvotek™ DuoSource™ 150 Power Supply

Designed to power any combination of horizontal or vertical electrophoresis units.

- Safety features include a fused UL-approved, three-pronged power plug and non-conductive casing
- Equipped with an easy-to-replace 1 Amp slow burn fuse
- Delivers direct current, constant voltage at settings of 75 and 150V
- Maximum current is 300mA



Cat. No.	Description	Quantity	Unit of Measure
S11509E	Dual Power Supply	1	Each

Edvotek™ QuadraSource™ Power Supply

Power a combination of electrophoresis units with this 650mA power supply.

Run experiments in the least time possible with this powerful, versatile unit.

- Easy-to-use, fully programmable interface for setting voltage, current or timer control, with each parameter displayed in real time
- Programs may be paused or resumed at any point
- Voltage: 30 to 300 V



Cat. No.	Description	Quantity	Unit of Measure
S05704	TetraSource 300 Power Supply	1	Each

Edvotek™ White Light Box

Safely enhance the visualization of DNA stained with FlashBlue™, proteins stained with Coomassie Blue, and autoradiograms.

- Features a spacious 25 x 25 cm (9.94 x 9.84 in.) viewing area
- Illuminated by long life LEDs
- Housed in a slim aluminum body
- Does not include an amber gel viewing filter
- Power rating: 8 watts
- Power supply: uses external 110V power brick



Cat. No.	Description	Quantity	Unit of Measure
S11552	Visible Light Gel Visualization	1	Each

Edvotek™ TruBlu™ Blue Light Transilluminator

For viewing DNA gels stained with SYBR™ Safe eliminating the need for UV light or ethidium bromide. The unit is optimized to fit Edvotek Gels, and the high intensity control and orange lid ensure superior visualization.



- Developed in concert with the inventor of the technology under license from Clare Chemical Research, Inc
- Viewing Area: 14.5 cm x 18 cm
- Optimized for Edvotek Gels
- Blue Light High Intensity Control
- Orange Contrast Lid
- Vivid results
- US Patent Nos. 6,198,107, 6,512,236, 6,914,250
- EP Patent No. 0 965 034
- Made in U.S.A.

Cat. No.	Description	Quantity	Unit of Measure
S42878	TruBlu Blue Light Transilluminator	1	Each

Edvotek™ Long Wave UV Mini-Lights

Used to detect hydrolysis of fluorescent substrate.

- Hand-held
- Also detects fluorescent *Artemia* and *Daphnia* after their ingestion
- Can also be used for observing fluorescence in Green (gfp) and Blue (bfp) fluorescent proteins



Cat. No.	Description	Quantity	Unit of Measure
S95133	Long Wave UV Mini-Lights	1	Each

Edvotek™ Classroom DNA Discovery LabStation™

The reengineered M36 Electrophoresis Apparatus features the latest in electrophoresis design, and supports up to six groups of students.

- Age: 14 to 20
- Time Range:
Results in 30 to 40 minutes
- Grade: 7 to Undergraduate
- Class size 6 lab groups

Includes:

- 1 x M36 HexaGel Electrophoresis Apparatus (6 Trays, 7 x 7 cm)
- 1 x DuoSource™ 75 Power Supply
- 2 x Fixed Volume MiniPipette™ 40 µL
- 1 x Yellow Micropipet Tips 1 to 200 µL (1 Rack of 96 Tips)
- 1 x Whose DNA Was Left Behind



Cat. No.	Description	Quantity	Unit of Measure
S72163	DNA Discovery LabStation	1	Each

Edvotek™ DNA DuraGel™

Designed for students to learn pipetting samples in agarose gels.

- DNA DuraGel™ gels are permanent polymer gels that allow students to practice the critically important skill of pipetting/gel loading
- Clear, reusable gels are designed for the practice of loading 5 - 35 µL of samples
- Gel grids are imprinted with a ruler for sizing DNA fragments
- Also included are simulated FlashBlue™ and ethidium bromide gel images, ideal for representing how actual gels are stained with methylene blue and ethidium bromide.
- Device holds 6 gels (12 to 24 students)
- **Includes:** 6 reusable DNA DuraGel™, 4 FlashBlue™ and 4 Ethidium Bromide gel images, practice gel loading solution and mini-transfer pipets



Cat. No.	Description	Quantity	Unit of Measure
S05711	DNA DuraGel	1	Each

Edvotek™ Reagents for Electrophoresis

Melt and Pour UltraSpec-Agarose™ consists of 0.8% electrophoretic grade UltraSpec-Agarose™ in tris-acetate-EDTA buffer, pH 7.9–8.0. The agarose concentration is sufficient for the separation of DNA fragments in the size range of 500–30,000 base pairs and complements the majority of EDVO-Kits that involve DNA electrophoresis.



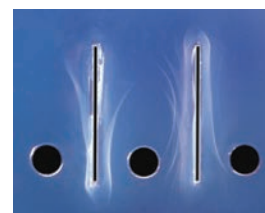
Cat. No.	Description	Quantity	Unit of Measure
S11601	Melt and Pour 0.8% UltraSpec-Agarose; 400 mL	1	Each
S11601B	Melt and Pour 0.8% UltraSpec-Agarose; 5 x 400 mL	1	Each
S11605	UltraSpec-Agarose; DNA Electrophoresis Grade, 20 g	1	Each
S11605B	UltraSpec-Agarose; DNA Electrophoresis Grade, 100 g	1	Each
S11607	Electrophoresis Buffer, 50X TAE (tris-acetate-EDTA), For 50 L	1	Each
S11609	FlashBlue™ Plus DNA Staining System; For 3 L	1	Each
S05678	SYBR™ Safe DNA Stain; 100 µL dilutes to 750 mL	1	Each
S94619	Tris-Borate EDTA Buffer 5 L	1	Each

Immunology

Edvotek™ Immunoelectrophoresis Kit

Intermediate level experiment uses immunoelectrophoresis to separate and characterize a mixture of proteins.

- Lets students examine the specificity of the antigen-antibody interaction
- Identifies proteins based on their combined electrophoretic and immunological properties
- Experiment uses agarose gel electrophoresis
- No experiment components contain human serum



Time Range:

- Electrophoresis: 60 minutes;
- Incubation: overnight

Includes: Instructions, proteins, antibodies; reagents, agarose, buffer, transfer pipets, well cutters, tubes, filter paper, 10 mL pipettes, and 60 mm petri plates

Requires: Horizontal electrophoresis apparatus, power supply, automatic micropipettes with tips, microscope slides (1 x 3 in.), distilled water, 400–600 mL beaker, 1,000 mL graduated cylinder, microwave, humidifying chamber, paper towels, plastic wrap or foil, and 37°C incubation oven (optional)

Cat. No.	Description	Quantity	Unit of Measure
S90247ND	Immunoelectrophoresis Kit	1	Each

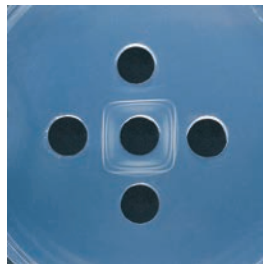
Edvotek™ Antigen-Antibody Interaction: The Ouchterlony Procedure Kit

Introduce students to the principles of antigen-antibody interactions using the Ouchterlony procedure.

- Demonstrates a fundamental reaction of immunology — the binding interaction of an antibody to an antigen and its resulting precipitate, which makes it possible to assay
- No components have been prepared from human sources
- Class size: 10 lab groups

Includes: Instructions, animal serum antigens and antibodies, practice gel loading solution, agarose, powdered buffer, transfer pipets, petri plates, well cutters, microtest tubes

Requires: Micropipet and tips, plastic container or glass baking dish, plastic wrap, distilled water, pipets, 5 or 10 mL, marking pen, measuring spatula or toothpicks, hotplate, bunsen burner or microwave, paper towels, water bath (55°C [131°F])



Cat. No.	Description	Quantity	Unit of Measure
S90246ND	Antigen - Antibody Interaction Kit	1	Each

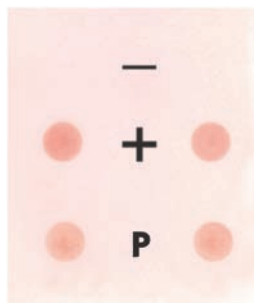
Edvotek™ Clinical Diagnostic Immunoblot

Demonstrates a sensitive immunological assay used in research and clinical laboratories to quantify protein antigens.

- Clinical diagnostics kits employ the principles of the immunoblot (dot blot), a technique used to determine the presence of an antigen
- Students will prepare a dot blot membrane to determine the presence of an antigen
- Antigens are absorbed into a membrane that is then treated sequentially with an antigen-specific antibody solution and a secondary antibody conjugated to an enzyme
- The enzyme-substrate reaction generates a color product that precipitates on the membrane, indicating a positive reaction
- Class size: 10 lab groups

Includes: Instructions, antigen, antibodies, various reagents and buffers, instant nonfat dry milk, hydrogen peroxide, nylon membranes and petri dishes

Requires: Forceps, graph paper, rulers, scissors, shaking platform (optional), distilled water



Cat. No.	Description	Quantity	Unit of Measure
S96347	Clinical Diagnostic Immunoblot	1	Each

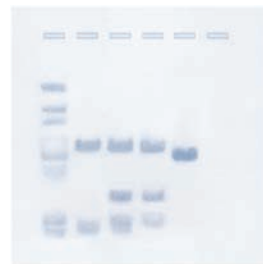
Edvotek™ Southern Blot Analysis For DNA Fingerprinting

Advanced-level experiment for DNA fingerprinting.

- Introduces your students to Southern blotting as a tool for "DNA Fingerprinting" in a hypothetical paternity determination
- DNA fragments are first separated by agarose gel electrophoresis, then transferred to a nylon membrane, and visualized by staining
- Class size: 5 lab groups

Includes: Instructions, DNA samples for electrophoresis, practice gel loading solution, UltraSpec-Agarose™, electrophoresis buffer, pipets, 5 pre-cut nylon membranes, 5 pre-cut blotting filter papers, Blue-Blot DNA Stain™

Requires: Electrophoresis apparatus, power supply, 65°C water bath, DNA visualization system, staining net and tray, automatic micropipettes, lab glassware, microwave or hot plate, distilled water, NaCl, NaOH, concentrated HCl, plastic wrap, forceps



Cat. No.	Description	Quantity	Unit of Measure
S11207	Southern Blot Analysis	1	Each

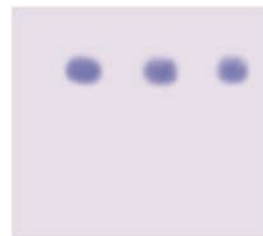
Edvotek™ AIDS Kit II: Simulation of HIV Detection by Western Blot

Provides a comprehensive introduction to the molecular biology and pathogenesis of AIDS.

- Separate protein samples using horizontal agarose electrophoresis
- Samples are transferred to a membrane and detected by staining
- Demonstrate the concepts and methodology involved with Western blots
- Instructor's guide provides pre-lab preparations, common pitfalls to avoid, answers to study questions, and MSDS sheets
- Does not contain HIV or its derivatives. No components have been prepared from human sources

Includes: Instructions, samples, standard molecular weight markers, protein agarose, various buffers and reagents, PVDF membrane, filter paper, stain, 1 mL pipet, 100 mL graduated cylinder

Requires: Electrophoresis apparatus, power supply, automatic micropipettes with tips, microwave or hot plate, incubation oven, shaker platform, lab glassware, small plastic trays, microtest tubes, pipet pumps or bulbs, metric rulers, distilled water, methanol, glacial acetic acid



Cat. No.	Description	Quantity	Unit of Measure
S66751	HIV Detection by Western Blot	1	Each

Edvotek™ Western Blot Analysis, Polyacrylamide-Based

In Western Blot analysis, protein identification is based on antibody and antigen reactions.

- Proteins are separated on a polyacrylamide gel, and are transferred (blotted) to a nylon membrane
- Membrane is exposed to solutions containing primary antibody, followed by a secondary antibody coupled to an enzyme
- Membrane is then soaked in a substrate solution to develop the color reaction to identify the antigen protein band
- Molecular weights of the visible bands are measured using prestained protein markers of known molecular weight
- 6 blots

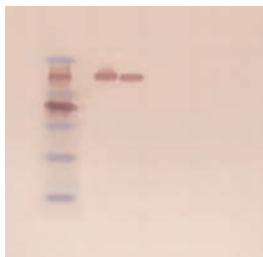
Experiment times:

- Electrophoresis: one hour
- Blot: overnight
- Detection: two hours and 30 minutes

Includes: Instructions, negative control, all samples and antibodies, various reagents and buffers, membrane and filter paper

Requires: Three polyacrylamide gels (12%), vertical gel electrophoresis apparatus, power supply, automatic micropipet with fine tips, laboratory glassware, metric rulers, distilled or deionized water, glacial acetic acid, methanol

Kit does not require an electrotransfer apparatus



Cat. No.	Description	Quantity	Unit of Measure
S90257	Western Blot Analysis	1	Each

Edvotek™ Researching Alzheimer's Disease by ELISA Kit



Students will become neuroscientists searching for Alzheimer's Disease biomarkers. Explores potential biomarkers by analyzing simulated patient samples from control and Alzheimer's Disease populations.

- Storage: some components require refrigerator storage
- Completion time: 1 class period
- For 10 lab groups
- Grades 9 to Undergraduate

Cat. No.	Description	Quantity	Unit of Measure
S27563	Alzheimer's Disease by ELISA Kit	1	Each

Edvotek™ Introduction to ELISA Reactions Kit



Teaches students the concepts of the Enzyme Linked Immunosorbent Assay (ELISA).

- Determine the reaction steps of ELISA — a precise and sensitive antibody-based detection method for antigens such as bacterial and viral proteins
- Perishable items shipped separately
- Time range: 45 min.
- Class size: 10 lab groups

Includes: Antigens, primary antibody, anti-IgG-peroxidase conjugate (secondary antibody), stabilized hydrogen peroxide, peroxide co-substrate, ABTS substrate, phosphate buffered saline concentrate, two microtiter plates, transfer pipets microtest tubes with attached caps, 15 mL plastic tubes

Requires: Distilled or deionized water, beakers, 37°C incubation oven, disposable lab gloves, safety goggles, automatic micropipets (0 to 50 µL) and tips recommended

No components have been prepared from human sources.

Cat. No.	Description	Quantity	Unit of Measure
S90245ND	Introduction ELISA Reactions Kit	1	Each

Edvotek™ AIDS Kit I: Simulation of HIV-1 Detection

Students will perform an ELISA test by coating microtiter plate wells with simulated HIV antigen, and then test simulated donor serum for anti-HIV antibodies.



- A model for HIV-1 detection without the use of blood
- Enzyme-linked immunoabsorbent assay (ELISA) is currently used for initial clinical screening of the blood supply for HIV-1
- Students add simulated HIV antigen to wells in the microtiter plate and follow it with washing and introduction of simulated antibodies of HIV-1 positive or negative samples
- A second antibody is added which binds to the first antibody of HIV-1 positive samples and results in a color change
- Time Range: 60 min.
- Class size: 10 lab groups

Includes: Complete instructions, background information, and study questions; biologicals and reagents; three microtiter plates; 50 transfer pipettes; 60 microtest tubes with attached caps; twenty-five 1 mL pipettes; two 50 mL plastic tubes.

Requirements: Distilled or deionized water, beakers, 37°C incubation oven, automatic micropipettes and tips (optional)

Note: some kit contents may need to be redeemed by mail.

Cat. No.	Description	Quantity	Unit of Measure
S11271	AIDS Kit I: Simulation of HIV -1 Detection	1	Each

Edvotek™ Expanding Our Testing: Using ELISA to Detect COVID-19



In this simulated medical test, students will perform the ELISA to detect the presence of COVID-19 antibodies in simulated patient samples.



- Hands-on simulation of molecular testing for COVID-19
- Learn about the characteristics of coronaviruses
- Understand antibodies and immunoassays
- Perform an ELISA to detect the presence of COVID-19 antibodies in simulated patient samples
- For 10 lab groups
- Complete experiment in 60 minutes
- Kit includes 10X ELISA wash buffer, ELISA dilution buffer, antigen (lyophilized), primary & secondary antibodies (lyophilized), ABTS substrate (lyophilized), ABTS reaction buffer, microtiter plates, microcentrifuge tubes & transfer pipets
- All you need: Distilled or deionized water, beakers, pipet pump or bulb, lab glassware, disposable lab gloves & safety goggles. Recommended: automatic micropipettes (0-50 µl, 100-1,000 µl) and tips
- Some components require refrigerator storage
- Grades 8 to Undergraduate

DISCLAIMERS: Please note, this experiment is a simulation and intended solely for educational purposes. There is no virus or human blood products included with this experiment. The experiment will not detect SARS-CoV-2 antibodies in human blood samples.

Cat. No.	Description	Quantity	Unit of Measure
S52002	Using ELISA to Detect COVID-19	1	Each

Edvotek™ Quantitative ELISA Laboratory Activity

Antibodies are highly specific in their recognition of antigens.



- ELISA experiment demonstrates the quantification of varying concentrations of viral antigens as detected by the intensity of the color reaction due to the accumulation of products
- Meets the requirements in the BSCS Blue Biology curriculum
- Complete in two hours
- Class size: 6 lab groups

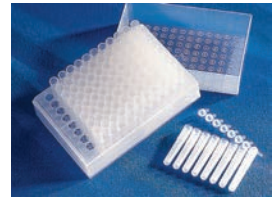
All you need:

- Distilled or deionized water
- 37° C incubation oven
- Automatic micropipettes with tips
- Laboratory glassware

Cat. No.	Description	Quantity	Unit of Measure
S05654	Quantitative ELISA Laboratory Activity	1	Each

Corning™ 96-Well Cluster Tube System

Manufactured from polypropylene for strength and durability. Corning™ Cluster Tube System is ideal for harvesting cells, cell uptake and receptor binding assays, and radioimmunoassays.



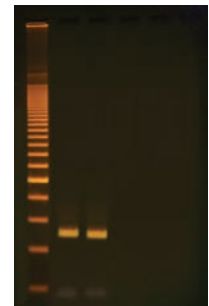
- Composed of 96 polypropylene tubes in a standard microplate format.
- Features 1.2 mL tubes that are available individually or in strips of eight tubes.
- Polyethylene tube caps are available in 8-cap strips.
- Non-sterile
- Autoclavable

Cat. No.	Description	Format	Quantity	Unit of Measure
07-200-317	Microplate Cluster Tube	Tube	960	Case

PCR, CRISPR, and Bioengineering

Edvotek™ Quick PCR

Lets students gain hands-on experience in the principles and practice of the Polymerase Chain Reaction (PCR).

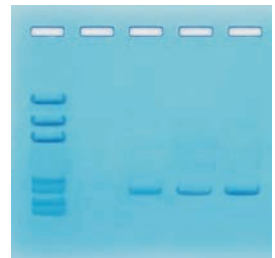


- Experiment uses a set of primers and lambda DNA template in a time-saving, two-step process
- Allows the lab to be completed in one session
- Does not contain human DNA
- Time Range: 60 min.
- Class size: 10 lab groups.

Cat. No.	Description	Quantity	Unit of Measure
S96378	Quick PCR Kit	1	Each

Edvotek™ Amplification of DNA by PCR

In this easy PCR experiment, students will make billions of copies of a small amount of DNA in just 90 minutes.



- Students simply mix template DNA and primers with PCR beads
- Students then take samples every few PCR reaction cycles and analyze them on a DNA gel
- As they analyze samples, students will see increasing amounts of DNA
- Time Range: 3 hours
- Class size: 10 lab groups

Cat. No.	Description	Quantity	Unit of Measure
S11330	Molecular Biology DNA/PCR	1	Each

Edvotek™ Exploring the Genetics of Taste: SNP Analysis of the PTC Gene Using PCR Experiment Kit



To identify the presence of the single nucleotide polymorphism (SNP) in an amplified segment of the PTC gene that links detection of the characteristic taste of PTC paper.

Five Modules Include:

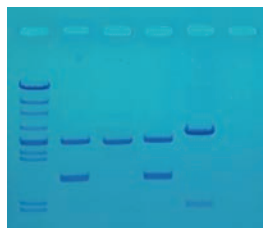
- Extraction of DNA from buccal cells
- Amplifying the segment that contains the polymorphic nucleotide
- Digestion of the amplified fragment with the restriction enzyme that recognizes the SNP
- Analysis by gel electrophoresis
- Tasting the PTC paper to confirm the results obtained

Kit details:

- For 25 reactions
- Complete in 3 hrs. 30 min.
- Level: Advanced
- Requires wet ice shipment for next day delivery

Cat. No.	Description	Quantity	Unit of Measure
S29018	SNP Analysis of the PTC Gene Using PCR Equipment	1	Each

Edvotek™ DNA Fingerprinting by PCR Amplification



Demonstrates the utility of DNA amplification in forensics.

- Forensic DNA fingerprinting has become a universally accepted crime-fighting tool. Recent advances use the Polymerase Chain Reaction (PCR) to amplify human DNA obtained from crime scenes.
- Develop a basic understanding of DNA fingerprinting
- Experiment is based on a crime scene scenario and has an inquiry-based component
- Enables varied results depending on the selection of DNA fingerprinting patterns
- Students analyze PCR reactions obtained from different suspects and compare them to a crime scene sample
- Does not contain human DNA
- Quantity: 8 gels
- Time Range: 45 min.

Cat. No.	Description	Quantity	Unit of Measure
S94607	DNA Fingerprinting by PCR Amplification	1	Each

Edvotek™ PCR-Based DNA Typing

DNA typing adapted from FBI technology.

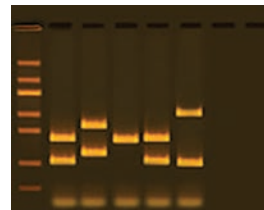
Safe experiment for classroom use to demonstrate DNA fingerprinting.

Alu-Human DNA Typing (S66823)

- Examine students' DNA for an Alu element on Chromosome 16
- Investigate DNA patterns
- Compare Alu genotypes with those of their classmates
- **Includes:** Instructions, proteinase K, PCR EdvoBeads™, control DNA and primers, microtubes, chelating agent, Agarose, DNA ladder, practice Gel loading solution, Gel loading dye, Buffer, InstaStain™ Ethidium Bromide and FlashBlue™

VNTR Human DNA Typing (S66824)

- Use PCR to fingerprint students' DNA at the D1S80 locus on Chromosome 1
- Provide an example of the variable number of tandem repeat (VNTR) polymorphism
- **Includes:** Instructions, proteinase K, PCR EdvoBeads™, control DNA and primers, microtubes, chelating agent, Agarose, DNA ladder, practice Gel loading solution, Gel loading dye, Buffer, FlashBlue™ stain

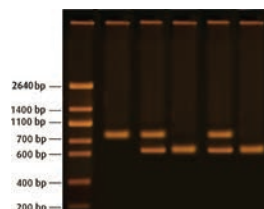


Cat. No.	Description	Quantity	Unit of Measure
S66823	Alu-Human DNA Typing	1	Each
S66824	VNTR Human DNA Typing	1	Each

Edvotek™ Diagnosing Huntington's Using PCR

Students will conduct a DNA fingerprinting exercise on simulated patient samples to determine if family members are heterozygous or homozygous for Huntington's Disease. Amplified DNA segments are then analyzed by agarose gel electrophoresis.

- Storage: some components require freezer storage
- Sufficient for 5 complete sets of reactions

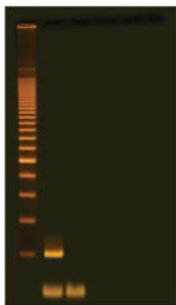


Cat. No.	Description	Quantity	Unit of Measure
S27564	Diagnosing Huntington's Using PCR Kit	1	Each

Edvotek™ Identification of Genetically Modified Foods Using PCR

Some foods, such as tofu and corn flakes, contain raw materials from genetically modified organisms (GMOs).

- Students will extract DNA from food or plant material and perform PCR to determine if any GM indicator genes are present
- Amplified DNA is separated and sized by agarose gel electrophoresis
- For Use With (Application): Food & Beverage
- No. of Reactions: 25
- Class size: 10 groups



Cat. No.	Description	Quantity	Unit of Measure
S68638	PCR Identification of Genetically Modified Food Stuffs	1	Each

Edvotek™ EdvoCycler™ Jr.

Offers superior performance and ease-of-use in a sleek form factor with a vivid touchscreen display.

- Easy to use and program
- Holds 16 x 0.2 mL PCR samples and 8-tube strip compatible
- 7 inch HD color touchscreen displays real-time cycling data
- Edvotek PCR Programs included, plus storage for 100 more
- Standalone machine - no PC or smartphone required
- High precision algorithm yields superior results
- Heated lid prevents sample evaporation
- Active cooling to 4°C
- Instant incubate function
- Temperature range: 4 to 99°C
- Maximum ramp rate: 4°C
- Made in U.S.A.

WARRANTY: 2 year



Cat. No.	Description	Quantity	Unit of Measure
S72162	EdvoCycler Jr.	1	Each

Edvotek™ EdvoCycler™ 2

Affordable PCR for the classroom without compromise.

- The sequel to the bestselling EdvoCycler™ has been fully re-imagined to offer the classroom advanced PCR functionality at the lowest sample price.
- At 48 wells, the Edvocycler™ 2 doubles the capacity of the original machine and offers faster performance and ease-of-use in a sleek new form factor with a vivid touchscreen display.
- Made in the U.S.A.
- Dimensions (L x W x H): 16 x 8.5 x 7 in. (40.6 x 21.6 x 17.8 cm)

WARRANTY: 2 year



Cat. No.	Description	Quantity	Unit of Measure
S68640	EdvoCycler 2 Classroom Thermal Cycler	1	Each

Edvotek™ Classroom PCR Discovery LabStation™

A versatile package suited to run the full spectrum of horizontal electrophoresis experiments.

Includes the following:

- 6 x Cat. #502/504 M12 Complete™ Package (7 x 14 cm Tray & 7 x 7 cm Trays (2))
- 3 x Cat. #509 DuoSource™ 150 (75/150 V, for 1 or 2 units)
- 6 x Cat. #590 Variable Micropipette (5 to 50 µL)
- 2 x Cat. #534 Piccolo Microcentrifuge
- 1 x Cat. #541-542 EdvoCycler™ 2 (48 x 0.2 mL)
- 1 x Cat. #557 TruBlu™ Blue Light Transilluminator (14.5 x 18 cm viewing surface)
- 1 x Cat. #539 1.8 L Water Bath
- Results in 30 to 40 minutes
- Grade: 8 to Undergraduate
- Class size: 1 to 2 lab groups



Cat. No.	Description	Quantity	Unit of Measure
S72164	PCR Discovery LabStation	1	Each

Edvotek™ Classroom PCR LabStation™

Supports up to 25 students.

Includes:

- Six M12 electrophoresis apparatus (7x14 cm and 7x7 cm trays)
- Three DuoSource™ 150 power supplies (75/150V, for one or two units)
- Six variable micropipets (5 to 5µl)
- Two Piccolo Microcentrifuges
- One EdvoCycler™ (25 x 0.2 mL)
- One TruBlu™ Blue Light Transilluminator
- One 1.8 L Digital Water Bath



Cat. No.	Description	Quantity	Unit of Measure
S05705	Classroom PCR LabStation	1	Each

CRISPR 3D Model Kit

Assemble and use 3D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to engage, explore, explain, extend, and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems, and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home
- Grade 6 to 10

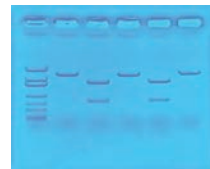


Cat. No.	Description	Quantity	Unit of Measure
S81449	CRISPR 3D Model	1	Each

Edvotek™ Using CRISPR to Treat Cystic Fibrosis Kit

Simulate the use of CRISPR-Cas9 to target a genetic mutation found in a patient suffering from Cystic Fibrosis. Students will develop an understanding of guide RNA (gRNA) design, and use agarose gel electrophoresis to examine pre-prepared DNA samples after CRISPR treatment.

- Storage: room temperature stable
- Refrigerator storage of ready-to-load QuickStrip™ samples recommended
- Suitable for 8 gels
- Expected time: 45 minutes
- Grade 9 to Undergraduate

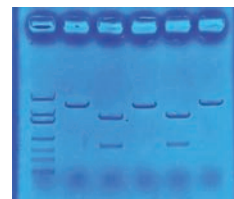


Cat. No.	Description	Quantity	Unit of Measure
S27552	CRISPR to Treat Cystic Fibrosis Kit	1	Each

Edvotek™ A-maize-ing Editing: Using CRISPR to Improve Crops Kit

Students will assume the role of plant geneticists working to develop corn crops capable of thriving in a changing environment. This experiment will allow students to develop an understanding of CRISPR-Cas9 applications, cleave DNA, and examine results after gel electrophoresis.

- Storage: some components require freezer storage upon receipt
- Sufficient for 8 gels
- Time range: 80 min. to 105 min.
- Grade 9 to Undergraduate



Cat. No.	Description	Quantity	Unit of Measure
S27553	A-maize-ing Editing: CRISPR Crops	1	Each

Edvotek™ Hack the Planet: Using CRISPR to Terraform Mars Kit

Simulate the use of CRISPR-Cas9 to modify bacterial DNA, which will then be transformed into auxotrophic *E. coli* that are incapable of surviving on the Martian surface. Only bacteria that receive the successfully edited DNA can survive, thrive, and help to terraform Mars!

- Storage: some components require freezer storage upon receipt
- Time range: three 1 hr. modules
- For 5 groups
- Grade 11 to Undergraduate



Cat. No.	Description	Quantity	Unit of Measure
S27554	Using CRISPR to Terraform Mars Kit	1	Each

Engineer and Explore Your Own Enteric Coated Drugs (STEM)



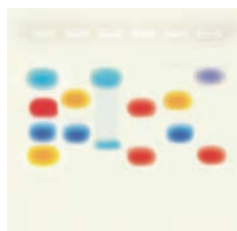
Students will learn the basic structures and pathway of the digestive system, understand the digestive functions of the stomach and small intestine, and investigate how the properties of different enteric coatings react in different sections of the digestive system.

- Students explore the purpose of an enteric coating and engineer a simulated coating most suitable for certain pharmaceutical needs
- Materials for 15 groups
- Grade 7 to 14
- Includes teacher's manual and student guide
- Aligned to the Next Generation Science Standards (NGSS)
- Disciplinary core ideas: ETS1.A; ETS1.B; LS1.A; ETS1.C
- Performance expectations: MS-LS1-3; MS-LS1-7; MS-ETS1-1; MS-ETS1-2; MS-ETS1-3; MS-ETS1-4; HS-LS1-2; HS-ETS1-2
- Cross cutting concepts: energy and matter; influence of science, engineering and technology on society and the natural world; systems and system models
- Engineering practices: developing and using models; asking questions and defining problems; analyzing and interpreting data; engaging in argument from evidence; constructing explanations and designing solutions

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Cat. No.	Description	Quantity	Unit of Measure
S40764	Engineer and Explore Your Own Enteric Coated Drugs Kit	1	Each

Edvotek™ Linking STEM to Agarose Gel Electrophoresis Educational Kit



Help students learn how gel electrophoresis is used in DNA fingerprinting, DNA paternity testing, genetics (related to health and well-being), and the detection of genetically modified foods. Comes with four unique module options.

- Links STEM concepts using agarose gel electrophoresis
- Dyes can be separated in agarose gels and students will use core STEM tools to determine band size
- Utilize critical thinking and reasoning skills
- For 10 lab groups
- Complete in 45 minutes
- Level: beginner

Cat. No.	Description	Quantity	Unit of Measure
S29009	Linking STEM to Agarose Gel Electrophoresis	1	Each

Engineering a Drug Delivery System Kit



Teaches students about the importance of drug delivery by testing simulated delivery systems in environments that mimic different parts of the body.

- Biomedical engineers design devices, equipment, and processes to improve medical treatment methods, the quality of human health, and life
- They apply engineering principles to biology and medicine to create products such as prosthetic limbs and artificial organs, among others
- One major focus of biomedical engineers is the design of drug delivery systems, which can control the transport and release of medicine in the body to more effectively treat diseases and illnesses
- Students will learn what properties must be considered when designing new drug delivery systems
- The delivery systems will be analyzed and compared, allowing students to engineer an optimal solution
- This lab has enough materials for 15 lab groups
- Grade 7 to 14
- Teacher's manual and student guide are included

Cat. No.	Description	Quantity	Unit of Measure
S27126	Engineering a Drug Delivery System Kit	1	Each

Engineer and Explore Materials for Prosthetics Kit

Investigates materials that biomedical engineers use when creating prosthetic devices. Students identify the physical properties of various metals, ceramics, and polymers to determine which are most suitable for use.



Students will:

- Investigate the physical properties of various metals, ceramics, and polymers to understand how they differ
- Then students will determine which materials would be most suitable for use in a hip replacement prosthetic
- Students will then engineer their own prosthetic arm that meets design requirements and mimics the functionality of a real hand
- Kit contains enough materials for 15 groups
- Grade 7 to 14
- Teacher's manual and student study guide copy masters are included

⚠️ ALERTS: CHOKING HAZARD, Children under 8 yrs. can choke or suffocate on uninflated or broken balloons. Adult supervision required. Keep uninflated balloons from children. Discard broken balloons at once.

Cat. No.	Description	Quantity	Unit of Measure
S27127	Engineer Prosthetic Materials Kit	1	Each

Biomaterials To Make Your Own Contact Lenses

Engineers play an integral role in finding a ratio of materials to maximize the desired properties and decrease the negative effects of other properties. Students will engineer a lens using 2 different materials.

- Students will determine the correct material and the concentration that has similar properties as a contact lens, while discovering the correct optical properties, tensile strength and hydrophobicity
- A hydrogel is a polymer like plastic, which has favorable optical properties and favorable flexibility/strength but like paper and glasses/ceramics is hydrophilic, which is necessary for a contact lens to function properly
- Aligned to the Next Generation Science Standards (NGSS)
- Disciplinary core ideas: ETS1.A; ETS1.B; ETS1.C; PS1.A
- Performance expectations: MS-ETS1-1; MS-ETS1-3; MS-ETS1-4; HS-PS1-3; HS-ETS1-2
- Cross cutting concepts: influence of science, engineering and technology on society and the natural world, patterns
- Engineering practices: asking questions and defining problems, analyzing and interpreting data, constructing explanations and designing solutions, planning and carrying out investigations
- Grade 7 to 14

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Cat. No.	Description	Quantity	Unit of Measure
S40765	Biomaterials to Make Your Own Contact Lenses	1	Each



Stem Investigations: Design a Biodegradable Plastic Kit

Learn how engineers develop bioplastics that break down quickly and produce less harmful byproducts. In this lab, students make samples of bioplastics to study how composition affects physical properties.

- Hundreds of millions of tons of plastic are produced each year and used for a variety of products, from packaging to automobiles
- The majority of these products are disposable items, leading to excessive amounts of plastic being discarded into landfills and the oceans
- Due to the major threat this poses to the environment, scientists and engineers are developing bioplastics that break down more quickly, and produce less harmful byproducts than traditional plastics
- In this activity, students will make samples of different bioplastics to study how composition affects their physical properties
- They will then use what they have learned to create a bioplastic that could be used to replace PET plastic in disposable water bottles
- Additionally, students will design an experiment to compare the biodegradability of their bioplastic samples to a traditional plastic
- Kit contains enough materials for 15 groups
- Grade 7 to 14
- Teacher's manual and student study guide copy masters are included
- Requires hot plates (not included)



Cat. No.	Description	Quantity	Unit of Measure
S27128	Design a Biodegradable Plastic Kit	1	Each



Engage Your Students Wherever They Are

Keep your students safe and engaged with a selection of remote learning tools and materials.

You'll find:

- Products for real-time instruction
- Activities for independent learning
- Physical distancing aids
- And more

Visit fisheredu.com/remotelearning to learn more.



Life Sciences Chemicals

Acetic Acid, Glacial

CH₃CO₂H

F.W. 60.05

CAS: 64-19-7

Color: Clear

Solubility in Water: Soluble in water

Shelf Life: 5 years

DOT Class 8 (3), II: Corrosive

FLAMMABLE

ACS GRADE

[S25118B](#) 500 mL[S25118](#) 2.5 L

ACS GRADE, SAFECOTE

[S25118A](#) 500 mL

Acetic Anhydride

Acetic Oxide; (CH₃CO)₂O

F.W. 102.09

CAS: 108-24-7

Color: Clear

Solubility in Water: Soluble in water

Shelf Life: 5 years

DOT Class 8 (3), II: Corrosive

FLAMMABLE

LAB GRADE

[S25119](#) 100 mL

REAGENT GRADE

[S25119A](#) 500 mL

Acetone

2-Propanone; Propanone CH₃COCH₃

F.W. 58.08

CAS: 67-64-1

Color: Clear

Solubility in Water: Soluble in water

Shelf Life: 5 years

DOT Class 3, II: Flammable Liquid

FLAMMABLE

ACS GRADE

[S25120](#) 500 mL[S25120A](#) 4 L

REAGENT GRADE

[S25120B](#) 500 mL[S25120C](#) 20 L

HISTOLOGY GRADE

[S25904](#) 4 L

Ascorbic Acid

L-Ascorbic Acid; C₆H₈O₆

F.W. 176.13

CAS: 50-81-7

Color: White to yellow

Solubility in Water: Soluble

Shelf Life: 2 years

MODERATE HAZARD

REAGENT GRADE - POWDER CRYSTALS

[S25184](#) 100 g

tert-Butanol

ACS GRADE - SAFECOTE

[S25210B](#) 500 mL

Calcium Chloride, Anhydrous

Dowflake; CaCl₂

F.W. 110.99

CAS: 10043-52-4

Color: Beige

Solubility in Water: Soluble in water

Shelf Life: 1 year

MODERATE HAZARD

SOLID

[S25223](#) 500 g[S25223A](#) 2 kg

Calcium Chloride, Dihydrate

CaCl₂·2H₂O

F.W. 147.02

CAS: 10035-04-8

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

MODERATE HAZARD

LAB GRADE - FLAKES

[S25221](#) 100 g[S25221A](#) 500 g

LAB GRADE - POWDER

[S25222](#) 100 g

REAGENT GRADE

[S25222A](#) 500 g

Citric Acid, Anhydrous

β-Hydroxytricarboxylic Acid; C₆H₈O₇

F.W. 192.13

CAS: 77-92-9

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

MODERATE HAZARD

LAB GRADE

[S25255](#) 100 g[S25255A](#) 500 g

Corn Syrup

Glucose Solution

CAS: 50-99-7

Color: Clear

Solubility in Water: Soluble in water

Shelf Life: 5 years

MODERATE HAZARD

LIQUID

[S25339](#) 500 mL

Cyclohexane

Hexahydrobenzene; C₆H₁₂

F.W. 84.15

CAS: 110-82-7

Color: Clear

Solubility in Water: Insoluble in water

Shelf Life: 5 years

DOT Class 3, II: Flammable Liquid

FLAMMABLE

REAGENT GRADE

[S25292](#) 500 mL

Dextrose, Anhydrous

REAGENT GRADE

[S25295A](#) 500 g[S25295B](#) 1 kg

Ethyl Acetate

Acetic Acid Ethyl Ester; CH₃COOC₂H₅

F.W. 88.11

CAS: 141-78-6

Color: Clear, colorless

Solubility in Water: Slightly soluble

Shelf Life: 2 years

DOT Class 3, II: Flammable Liquid

FLAMMABLE

ACS GRADE

[S25305](#) 500 mL

Ethyl Alcohol

Ethanol; C₂H₅OH

F.W. 46.07

CAS: 64-17-5

Color: Clear, colorless

Solubility in Water: Slightly soluble

Shelf Life: 5 years

DOT Class 3, II: Flammable Liquid

FLAMMABLE

70% DENATURED W/MIBK

[S25306](#) 500 mL[S25306A](#) 4 L

95% DENATURED W/IPA AND METHANOL

[S25309D](#) 500 mL[S25309E](#) 4 L

95% DENATURED W/MIBK

[S25310](#) 500 mL[S25310A](#) 3.8 L

ANHYDROUS, DENATURED W/MIBK

[S25307](#) 500 mL[S25307A](#) 1 L[S25307B](#) 4 L

ANHYDROUS, DENATURED, W/IPA AND METHANOL

[S25308**](#) 1 L[S25308A**](#) 20 L

LAB GRADE - 95% DENATURED W/IPA AND METHANOL

[S25309](#) 500 mL[S25309C](#) 1 L

LAB GRADE - 95% DENATURED W/IPA AND METHANOL; SAFECOTE

[S25309A](#) 3.8 L[S25309B](#) 4 L

Ethyl Ether, Anhydrous

(C₂H₅)₂O

F.W. 74.12

CAS: 60-29-7

Color: Clear

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 3, I: Flammable

FLAMMABLE

ACS GRADE

[S25903L](#) 1 L[S25903](#) 4 L

Glucose Solution, 15%

Glucose Solution

Shelf Life: 2 years

MODERATE HAZARD

15% SOLUTION

[S25338](#) 250 mL

GlycerinGlycerol; $C_3H_5(OH)_3$

F.W. 92.1

CAS: 56-81-5

Color: Clear

Solubility in Water: Miscible in water

Shelf Life: 5 years

ACS GRADE - LIQUID[S25342A](#) 500 mL

MODERATE HAZARD

Hexanes C_6H_{14}

F.W. 86.18

CAS: 110-54-3

Color: Clear, colorless

Solubility in Water: Insoluble

Shelf Life: 5 years

DOT Class 3, II: *Flammable Liquid***ACS GRADE**[S25352A](#) 4 L**LAB GRADE**[S25352](#) 1 L**REAGENT GRADE**[S25351](#) 500 mL

FLAMMABLE

Hydrochloric Acid Solution

F.W. 36.46

CAS: 7647-01-0, 7732-18-5

Density: 1.000

Color: Undesignated

Solubility in Water: Soluble in water

DOT Class 8, II, : *Corrosive***0.25M**[S25855](#) 500 mL

CORROSIVE

Hydrochloric Acid Solution, 1.0N

Color: Clear, colorless

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, III: *Corrosive***1N**[S25356](#) 500 mL[S25356A](#) 1 L[S25908](#) 4 L

CORROSIVE

Hydrochloric Acid Solutions, Various

Color: Clear

Solubility in Water: Soluble in water

DOT Class 8, III : *Corrosive***3M**[S25856](#) 500 mL**6M**[S25857](#) 500 mL

CORROSIVE

Hydrochloric Acid, ACS, 12M

Hydrogen Chloride; HCl

F.W. 36.46

CAS: 7647-01-0

Solubility in Water: Infinite

Shelf Life: 2 years

DOT Class 8, II: *Corrosive***ACS GRADE**[S25838](#) 2.5 L**ACS GRADE - SAFECOTE**[S25358](#) 500 mL[S25838A](#) 2.5 L

CORROSIVE

Hydrogen PeroxideHydrogen Dioxide; H_2O_2

Color: Clear, colorless

Solubility in Water: Soluble

LAB GRADE - 3% SOLUTION[S25359](#) 500 mL[S25359A](#) 3.785 L**LAB GRADE - 6% SOLUTION**[S25361A](#) 500 mL**LAB GRADE - 6% SOLUTION - STABILIZED**[S25361](#) 500 mL

MODERATE HAZARD

Hydrogen Peroxide, 30% SolutionHydrogen Dioxide; H_2O_2

F.W. 34.01

CAS: 7722-84-1

Color: Clear, colorless

Solubility in Water: Soluble

DOT Class 5.1 (8), II: *Oxidizer***30% SOLUTION**[S25360](#) 500 mL

REACTIVE & OXIDIZING

Isopropyl AlcoholRubbing Alcohol; $(CH_3)_2CHOH$

Color: Clear, colorless

Solubility in Water: Infinite

DOT Class 3, II: *Flammable Liquid***70% SOLUTION**[S25371](#) 500 mL[S25371A](#) 4 L**99% SOLUTION**[S25372](#) 500 mL[S25372A](#) 3.785 L

FLAMMABLE

MethanolMethyl Alcohol; CH_3OH

F.W. 32.04

CAS: 67-56-1

Color: Clear, colorless

Solubility in Water: Miscible in water

DOT Class 3, II: *Flammable Liquid***LAB GRADE**[S25426A**](#) 4 L**REAGENT GRADE**[S25426**](#) 500 mL

FLAMMABLE

Nitric Acid Solution, 15.8M, ConcentratedHydrogen Nitrate; HNO_3

F.W. 63.02

Color: Clear

Solubility in Water: Soluble in water

DOT Class 8, II: *Corrosive***ACS GRADE - NON-SAFECOTE**[S25906](#) 500 mL**ACS GRADE - SAFECOTE**[S25449C](#) 2.5 L

CORROSIVE

Petroleum Ether**ACS GRADE - SAFECOTE**[S25461A](#) 500 mL**Potassium Chloride**

KCl

F.W. 74.56

CAS: 7447-40-7

Color: White

Solubility in Water: Partially soluble

REAGENT GRADE[S25484](#) 100 g[S25484A](#) 500 g

MODERATE HAZARD

Potassium Iodide

KI

F.W. 166.01

CAS: 7681-11-0

Color: White

Solubility in Water: Soluble

LAB GRADE[S25493C](#) 100 g[S25493D](#) 500 g**REAGENT GRADE**[S25493](#) 25 g[S25493A](#) 100 g[S25493B](#) 500 g

MODERATE HAZARD

Potassium NitrateSaltpeter; KNO_3

F.W. 101.11

CAS: 7757-79-1

Color: White

DOT Class 5.1, III: *Oxidizer***LAB GRADE**[S25494B](#) 500 g**REAGENT GRADE**[S25494](#) 100 g[S25494A](#) 500 g[S25494C](#) 3 kg

REACTIVE & OXIDIZING

Sodium Bicarbonate**REAGENT GRADE**[S25533A](#) 2.5 kg[S25533](#) 500 g[S25533B](#) 3 kg**Sodium Chloride**

Salt; NaCl

F.W. 58.44

CAS: 7647-14-5

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

LAB GRADE[S25542](#) 500 g**REAGENT GRADE**[S25541](#) 500 g[S25541A](#) 2.5 kg[S25542A](#) 3 kg[S25541B](#) 12 kg**SOLID - ROCK SALT**[S25543](#) 2.5 kg

MODERATE HAZARD

Sodium Hydroxide

Caustic Soda; NaOH

F.W. 40.00

CAS: 1310-73-2

Color: White

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, II: Corrosive

CORROSIVE

LAB GRADE

[S25548B](#) 500 g

REAGENT GRADE

[S25548](#) 100 g[S25548A](#) 500 g[S25548C](#) 1 kg[S25548D](#) 3 kg

Sodium Hydroxide Solutions, 1N

Caustic Soda

Color: Clear, colorless

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, II: Corrosive

CORROSIVE

1N SOLUTION

[S25549](#) 1 L

Sodium Hydroxide Solutions, Various

Caustic Soda

Color: Clear

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, II: Corrosive

CORROSIVE

0.5M

[S25881](#) 500 mL

3M

[S25884](#) 500 mL

50% SOLUTION

[S25882](#) 500 mL

6M

[S25883](#) 500 mL

Starch

1% SOLUTION

[S25584](#) 250 mL

POWDER - CORN STARCH

[S25580](#) 500 g

Sucrose

 $C_{12}H_{22}O_{11}$

F.W. 342.30

CAS: 57-50-1

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

REAGENT GRADE

[S25590](#) 500 g[S25590B](#) 2.5 kg

Sulfuric Acid, Reagent/ACS Grades

 H_2SO_4

F.W. 98.07

CAS: 7664-93-9

Color: Clear, colorless

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, II: Corrosive

CORROSIVE

ACS GRADE - SAFECOTE

[S25597*](#) 500 mL

Water

F.W. 18.02

CAS: 7732-18-5

Color: Clear

Shelf Life: 5 years

Use: Not for human consumption

MODERATE HAZARD

DEIONIZED, TYPE II

[S25293](#) 4 L

DISTILLED

[S25868](#) 1 gal.

Zinc Chloride

Zinc Butter; $ZnCl_2$

F.W. 136.29

CAS: 7646-85-7

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 8, III: Corrosive

CORROSIVE

REAGENT GRADE

[S25635A](#) 100 g[S25635](#) 500 g

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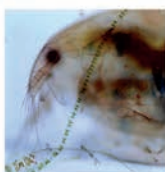
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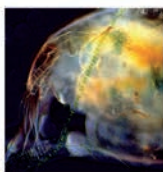
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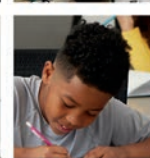
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