



Generation Ready

*High-Quality Instructional Materials
Implementation Roadmap for Mathematics*



GENERATION READY

HQIM Implementation Journey

Partnering for High-Quality, Equitable Mathematics Instruction

Mathematics instruction plays a pivotal role in preparing students for academic success and future careers. High-Quality Instructional Materials (HQIM) ensure that teaching is purposeful, standards-aligned, and equitable, providing all students access to rigorous learning experiences that build deep conceptual understanding and problem-solving skills.

Generation Ready partners closely with schools, districts, and systems to guide the entire HQIM journey, from supporting the thoughtful selection of curriculum materials to facilitating their effective, sustained implementation. Our collaborative approach combines research-based strategies, leadership development, targeted professional learning, and coaching to strengthen instructional capacity and promote equitable outcomes for all learners.

Key ways Generation Ready supports HQIM selection and implementation include:

- Facilitating informed curriculum selection through collaborative review processes that align materials with state standards and district goals, ensuring coherence and accessibility.
- Building a shared vision and commitment among leaders, teachers, and stakeholders to foster ownership and readiness for change.
- Developing comprehensive implementation plans that include clear goals, timelines, and roles, integrating HQIM within existing instructional priorities.
- Designing and delivering job-embedded professional learning that empowers educators to effectively use materials and adapt instruction to meet diverse student needs.
- Providing ongoing coaching and leadership support to deepen instructional practices and sustain momentum.
- Using data-driven continuous improvement cycles to monitor implementation fidelity, measure impact, and refine supports.
- Fostering sustainability by building internal leadership and coaching capacity, embedding professional learning structures, and preparing for staff transitions.

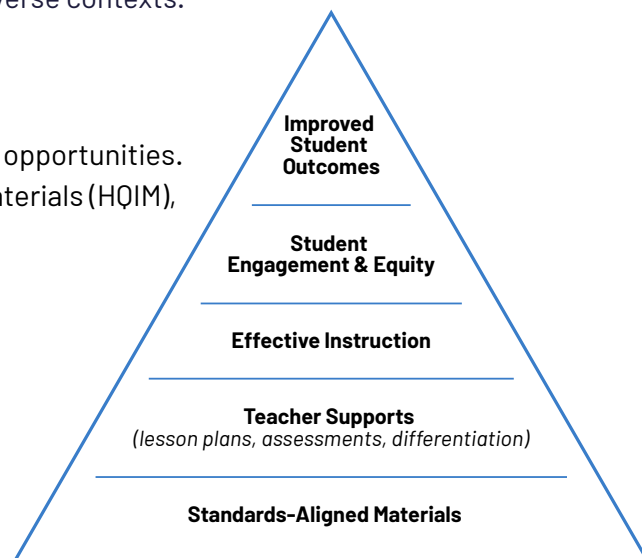
Through these supports, Generation Ready equips districts and schools to create lasting improvements in mathematics teaching and learning, advancing equity and student success across diverse contexts.

High-Quality Instructional Materials Matter

Mathematics is foundational to students' academic success and future opportunities. Research shows that when educators use High-Quality Instructional Materials (HQIM), student learning improves because instruction is:

- Purposeful and standards-aligned: Ensuring lessons build skills coherently and progressively
- Equitable: Providing all students access to rigorous content and supports
- Engaging: Incorporating scaffolds and differentiated strategies to meet diverse learner needs, including English Learners and students with disabilities.

HQIM supports teachers by providing ready-to-use lesson plans, formative assessments, and strategies for differentiation, which enhance instructional effectiveness and student engagement. Generation Ready partners with districts and schools to leverage HQIM to transform teaching and learning, helping educators deliver rigorous, coherent, and equitable math instruction.



HQIM Implementation Journey

Partnering for High-Quality, Equitable Mathematics Instruction

Selecting High-Quality Instructional Materials that align with state standards, district/school priorities, and student needs is a foundational step in improving mathematics instruction. Generation Ready collaborates closely with district and school teams to ensure this selection process is thorough, transparent, and inclusive. Successful, equitable HQIM implementation.

How Generation Ready Supports HQIM Selection

- Facilitate a collaborative review process that is a structured evaluation of curricula using research-backed rubrics and alignment tools that reflect rigor, coherence, and accessibility.
- Involve teachers, leaders, coaches, and families to gather diverse perspectives and build broad ownership of the chosen materials.
- Ensure that selected materials support district instructional goals, equity initiatives, and meet the needs of diverse learners including English Learners and students with disabilities.
- Support the use of relevant student achievement data and needs assessments to guide curriculum choices.
- Prepare educators and leaders with early communication, orientation sessions, and vision-setting activities to foster enthusiasm and readiness for implementation.



Outcomes of the Selection Partnership

- Clear, well-documented rationale for curriculum choice.
- Broad educator and stakeholder commitment.
- Established foundation for successful, equitable HQIM implementation.

Generation Ready's goal is to make curriculum selection a thoughtful, data-driven, and community-centered process that sets the stage for impactful mathematics teaching and learning.

Preparing for HQIM Implementation

Successful adoption of High-Quality Instructional Materials requires thoughtful preparation that addresses the instructional environment, readiness, and stakeholder engagement. Generation Ready partners with schools and districts to create a solid foundation for effective implementation by assessing current practices, building leadership and teacher readiness, and fostering clear communication.

Key Preparation Activities Supported by Generation Ready

- Conduct surveys, interviews, and data reviews to understand educators' familiarity with HQIM and identify professional learning needs.
- Establish a core group of leaders, coaches, and teacher representatives to guide and coordinate implementation efforts.
- Analyze existing materials and instructional practices to identify strengths, gaps, and opportunities for alignment with HQIM goals.
- Develop transparent communication strategies to keep all stakeholders informed and engaged, building excitement and trust early in the process.
- Facilitate leadership and staff sessions to create a shared vision and clear goals for HQIM use aligned with district priorities.

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Partnering for High-Quality, Equitable Mathematics Instruction

Outcomes of Effective Preparation

- A clear understanding of district and school readiness and needs.
- A committed and coordinated implementation leadership team.
- Transparent communication that builds trust and readiness among educators and families.
- A shared vision and goals that guide focused and coherent implementation.

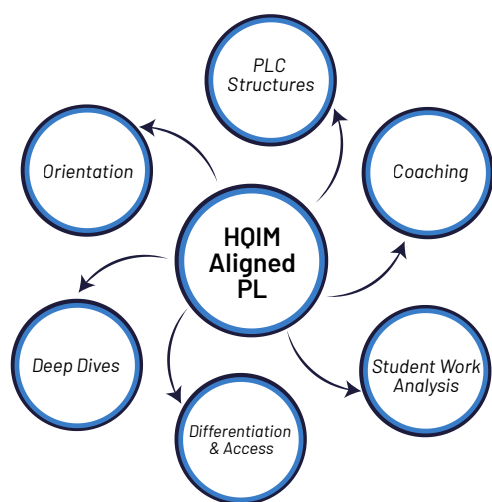
By investing in thorough preparation, Generation Ready helps districts avoid common pitfalls and ensures HQIM adoption is intentional, collaborative, and responsive to local contexts.

Building Capacity and Professional Learning

Effective use of High-Quality Instructional Materials depends on educators' deep understanding of the curriculum and confidence in applying research-based instructional strategies. Generation Ready partners with schools and districts to design and deliver professional learning that is ongoing, job-embedded, and focused on equitable, rigorous mathematics instruction.



Knowledge Practice Reflection



Key Professional Learning Supports from Generation Ready include:

- Introduce educators to the structure, key components, and rationale of HQIM materials to build familiarity and buy-in.
- Facilitate sessions focused on priority units, lesson types, and pedagogical routines that promote mathematical reasoning and discourse.
- Guide teachers in hands-on planning using real classroom tasks and formative assessment data to ensure effective lesson delivery.
- Provide strategies to scaffold instruction and meet the diverse learning needs of all students, including English Learners and students with disabilities.
- Support teams in examining student work to inform instructional decisions and refine practice.
- Integrate coaching cycles that offer personalized feedback, modeling, and reflection opportunities aligned to HQIM use.

Impact of Professional Learning

- Increased teacher confidence and instructional skill with HQIM.
- More strategic, equitable, and engaging mathematics instruction.
- Greater collaboration among educators focused on student learning.
- Sustainable capacity for ongoing instructional improvement.

Generation Ready ensures that professional learning is not a one-time event but a continuous process embedded in educators' daily practice to support sustained HQIM success.

Before HQIM	After HQIM
Inconsistent materials	Aligned, coherent units
Limited discourse	Structured discussions
Variable planning	Common Planning tools
Teacher-dependent strategies	Shared routines

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Multi-Year HQIM Implementation Pathway

Implementing high-quality instructional materials in mathematics is not a one-year initiative, it is a multi-year journey of building shared understanding, strengthening instructional practice, and developing internal capacity across the system. While Year 1 often focuses on adoption, orientation, and early implementation, true transformation emerges over time as teachers, leaders, and systems deepen their expertise and create the conditions for sustainable, high-impact instruction.

Generation Ready partners with schools, districts, and systems through this full multi-year arc, ensuring that support evolves as needs change: from initial onboarding to advanced coaching, leadership capacity building, and long-term sustainability structures.

Year 2:

Deepening Practice & Strengthening Instructional Consistency

Move from surface-level use to deep, intentional implementation with strong instructional decision-making.

Focus Areas:

- Focused coaching on differentiation and scaffolds.
- Student work analysis routines fully in use.
- Targeted planning for discourse, reasoning, and problem solving.
- Data-driven supports for struggling learners.
- Increasing coherence across grade levels.
- Strengthening leadership capacity to provide targeted feedback.

What Success Looks Like:

- Stronger alignment between materials, instruction, and student learning.
- Teacher independence in planning and adaptation.
- Higher-quality discourse and reasoning in classrooms.
- More consistent implementation across teams and grade levels.

Year 3:

Sustainability, Internal Capacity & Systemwide Coherence

Build long-term structures so high-quality instruction lives beyond external support.

Focus Areas:

- Developing teacher leaders and internal coaches.
- Cross-school and district-level alignment practices.
- Continued refinement of instructional vision.
- Embedding HQIM practices in onboarding and PD systems.
- Leadership ownership of coaching cycles and feedback structures.

What Success Looks Like:

- Internal teams lead planning, coaching, and professional learning.
- HQIM-aligned instruction is the norm across classrooms.
- Coherent and predictable support systems are embedded districtwide.
- Schools maintain high-quality implementation independently.

As your district advances along this multi-year journey, Generation Ready remains a collaborative partner, supporting the design, implementation, and long-term sustainability of high-quality mathematics instruction that ensures every student has access to rigorous, empowering learning every day.





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