

Follow-Up Professional Learning Descriptions

Plan Effective Math Learning Experiences

The comprehensive suite of teaching materials and resources within *Math in Focus* is designed to provide rich, sequenced learning experiences to students; however, planning is still a critical step in the instructional process. In this session, participants prepare for a section of learning by revisiting the learning objectives and instructional sequence, exploring the hands-on activities, and making decisions on which resources most effectively serve the needs of their learners.

Learning Outcomes:

- Understand the value of unpacking the mathematics and analyzing assessments prior to instruction.
- Utilize the teacher support features within *Math in Focus* to facilitate rich learning experiences.
- Confidently and efficiently plan for sections of learning using both print and digital resources.

Maximize Learning with Digital Resources

The digital resources available with *Math in Focus* increase efficiency and engagement with the content. During this session, participants explore the purpose and function of online resources and spend time determining how they can effectively utilize these resources to empower students and guide instructional decisions.

Learning Outcomes:

- Apply research-based blended learning practices to your math classroom.
- Efficiently access and assign *Math in Focus* digital tools and resources.
- Prepare lessons that meaningfully integrate both digital and print resources.

Engage and Empower Diverse Learners in Math

All students deserve the opportunity to engage in meaningful and relevant experiences that build positive attitudes toward learning mathematics. During this session, participants explore powerful tools and strategies throughout *Math in Focus* that support diverse learners in conceptualizing, critically thinking about, and persevering in mathematics.

Learning Outcomes:

- Integrate targeted instructional resources to support the unique students in your classroom.
- Apply your understanding of differentiating instruction to the core learning experiences in *Math in Focus*.
- Pair the program resources and learning experiences with classroom structures that support diverse learners.

Leverage Assessment Data to Accelerate Student Growth

Analyzing data from formal and informal assessments provides the knowledge teachers need to further student growth. Participants explore best practices in assessment, investigate the assessment opportunities within *Math in Focus*, and engage in collaborative conversations about what the data reveals about student progress and instructional adjustments.

Learning Outcomes:

- Articulate the purpose behind the assessments in *Math in Focus* to inform use.
- Leverage the use of online assessments while maintaining program fidelity.
- Gather and analyze assessment data to gain a complete picture of student progress.

Move Students from Understanding to Mastery

Math in Focus is built on an instructional framework developed by the Singapore Ministry of Education that draws on years of leading international research on effective teaching and learning of mathematics. To deepen understanding and build confidence in facilitating the learning experiences in the program, participants engage in hands-on activities that simulate what students encounter in the classroom.

Learning Outcomes:

- Recognize how the concrete–pictorial–abstract learning progression and chapter structure move students toward mathematical mastery.
- Facilitate rich learning experiences by understanding how students are expected to use concrete objects and visual models.
- Gain confidence in teaching through the instructional framework and pedagogical pillars of *Math in Focus*.

Stimulate Student Thinking through Problem Solving and Discourse

Problem solving and discourse are central to mathematics learning. During this session, participants investigate what it means to teach *for*, *about*, and *through* problem solving. As they learn more about the problem-solving experiences in *Math in Focus*, participants uncover the significant role of discourse in mathematical sense-making and how to utilize program features to encourage student voice.

Learning Outcomes:

- Identify opportunities for mathematical discourse and problem solving throughout *Math in Focus*.
- Support students in applying the mathematical habits and problem-solving heuristics in a variety of learning experiences.
- Determine strategies for increasing discourse in your classroom.

For more information about professional learning, visit

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