

# Free Mathematics Workshops for Grades K–12

**Houghton Mifflin Harcourt®** has developed a series of four professional learning workshops to explore the critical needs facing educators who teach mathematics.

Each of the following 90-minute workshops provides teachers with insights and strategies for immediate classroom application.



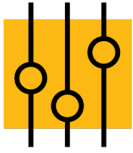
## **MATH TASKS (K–5, 6–12)**

During this workshop, you will learn about and facilitate experiences based on rich math tasks with a focus on accessibility for all learners, real-life tasks, and developing multiple approaches to tasks. You'll practice collaboration and discussion, engagement techniques, and opportunities for using task-based activities with students at all ability levels and varying levels of English language acquisition. You'll leave with a collection of math tasks as resources that can be implemented in your current math classroom.



## **MATH WORKSHOP (K–6)**

Through interactive activities, this session explores how the math workshop uses investigations to engage students and help them contextualize and connect math to their lives. Together we'll recreate a math workshop in order to experience it through the eyes of students. We'll also explore common workshop logistical questions: What are students doing? What is the teacher doing? How do I arrange my room? How do I group my students? What does assessment look like? You'll leave with a framework for building a math workshop environment in your own classroom that engages students at all ability levels and at differing levels of English language acquisition.



## **SUPPORTING STUDENTS THROUGH DIFFERENTIATION (K–5, 6–12)**

Through interactive activities, this workshop will give you an understanding of how to create engaging mathematics explorations that help students make connections in context. Five proven, research-based differentiation techniques will be explored: Physical, Visual, Contextual, Symbolic, and Verbal. We'll use hands-on activities to explore how you can use multiple techniques to present similar problems to students at different levels of understanding, and together we'll create a bank of resources for you to take back to your classroom. We'll also practice collaboration and discussion, engagement techniques, and proven methods for improving differentiation for students at all ability levels and different levels of English language acquisition.



## **MATH DISCOURSE (K–5, 6–12)**

Based on ideas from the professional resource *Math Talks*, this workshop explores the different elements of engaging students through rigorous mathematical discourse. We'll engage with math discourse at different grade levels and practice collaboration and discussion, engagement techniques, and opportunities for using math discourse with students at all ability levels and varying levels of English language acquisition.

**For more information, please contact your HMH Account Executive.**

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