

Houghton Mifflin Harcourt has for nearly two centuries been—and continues to be—committed to creating high-quality, pedagogically sound content. HMH Learning Architects are passionate about building a curriculum that is rooted in the latest research, is grade-level appropriate, is designed to meet standards, and contains appropriate language, images, and instructional strategies to help raise student achievement. We believe that dynamic, targeted, and flexible classroom resources create learning environments that empower students, educators, and students’ families to close the achievement gap.

HMH’s *Math Expressions* is one such curriculum. The *Math Expressions* program has a proven track record of successful implementations, and districts across the country have endorsed the program’s ability to deliver the highest-quality mathematics instruction to inspire curious learners.

- *Math Expressions* is a proven Pre-K–6 curriculum that helps children make sense of math by guiding them to explore, discuss, and demonstrate their understanding of key concepts. Through hands-on activities and active leadership, students learn how to look deeper and choose their own path to the answers—skills that will take them far beyond the math classroom. At the heart of *Math Expressions Common Core* is the building of a confident, Math Talk community. Through their experiences in this rich environment, students reach their learning destination—the ability to use formal math methods driven by deep foundational understanding and fluency.
- *Math Expressions Common Core* was developed to respond to the same gaps and recommendations as the Common Core State Standards for Mathematics.
Math Expressions is
 - **Focused:** The instruction is focused on essential learning, the core concepts of the Common Core State Standards for Mathematics, and big ideas at each grade so that students master content before they progress.
 - **Coherent:** The instruction is organized into meaningful progressions that connect key topics between consecutive grade levels.
 - **Rigorous:** The instruction empowers students to gain a deep conceptual understanding, fluency with procedure, and the ability to apply concepts and reasoning to solve complex problems.
 - **Integrated:** The Standards for Mathematical Practice are meaningfully incorporated into all of the lessons in *Math Expressions*.
- *Math Expressions Common Core* supports the Common Core State Standards for Mathematics by including work on all standards for each grade level but concentrating especially on the major work of the grade for deep mastery. The program’s focus on visual representations, modeling, exploration, and discussion offer research-based, engaging ways to teach and learn mathematics.
- The Author, Dr. Karen Fuson, Professor Emeritus at Northwestern University, has performed extensive research focused on how children learn mathematics. Dr. Fuson received NSF grant funding for research and curriculum development (the Children’s Math Worlds Research Project). This research became the basis for the *Math Expressions* program. She was a major contributor to several National Research Council’s books, including *Adding It Up* and *How Students Learn Math*, and the research from these vital publications was used in the development of the Common Core State Standards. Dr. Fuson served as a member of the expert Feedback Committee for the Common Core Standards for Mathematics and as a member of the writing team for the Common Core Learning Progressions.

- Several major [research studies](#) have demonstrated that *Math Expressions* is effective in increasing student mathematics achievement. The program is one of only a few elementary school math programs to receive a “[Strong Evidence](#)” efficacy rating from the Center for Research and Reform in Education (CRRE) at Johns Hopkins University. The CRRE created Evidence for ESSA to highlight education programs that meet the Every Student Succeeds Act (ESSA) accountability regulations. The Randomized Control Trial (RCT) found that students who used *Math Expressions* scored significantly higher than students using other curricula, with the learning gains shown by the *Math Expressions* group equivalent to about two months of additional progress.

HMH is committed to supporting teachers, schools, and districts with Professional Services from the point of initial program implementation and beyond. Our mission is to further the goals of the districts we serve, and we do this through a strong and established cadre of dedicated consultants and former educators ready to partner with districts of all sizes.

Houghton Mifflin Harcourt’s *Math Expressions* works. We are proud of the positive impact this program makes every day in classrooms across the country.