

Implementing Research-Informed Evidence-Based Mathematics TEACHING



Mathematics
Education Center

Resources for Implementing Rich Math Tasks

BOOKS

- *Taking Action: Implementing Effective Mathematics Teaching Practices Series* (K-5, 6-8, 9-12), NCTM
- *5 Practices for Orchestrating Productive Mathematics Discussions* (2nd Edition), Smith & Stein
- *The 5 Practices in Practice Series* (Elementary, Middle School, High School), Smith, Sherin, & colleagues
- *Classroom-Ready Rich Math Tasks: Engaging Students in Doing Math Series* (K-1, 2-3, 4-5), Kobett & colleagues
- *Classroom-Ready Rich Algebra Tasks: Engaging Students in Doing Math*, Dougherty & Venenciano

WEBSITES

[Bridging for Math Strength](#)

[3-Act Tasks](#)

[Illustrative Mathematics](#)

[NRICH Mathematics Resources for Teachers, Parents and Students](#)

[Virginia Department of Education: Rich Mathematical Tasks](#)

Resources for Building Fact Fluency

BOOKS

- *The Figuring Out Fluency in Mathematics Teaching and Learning Series*, Bay-Williams, SanGiovanni, & colleagues
 - Moving Beyond Basic Facts and Memorization, Grades K-8
 - Classroom Companions: Addition & Subtraction with Whole Numbers; Multiplication & Division with Whole Numbers; Operations with Rational Numbers and Algebraic Equations; Addition & Subtraction with Fractions and Decimals; Multiplication & Division with Fractions and Decimals
- *Math Fact Fluency: 60+ Games and Assessment Tools to Support Learning and Retention*, Bay-Williams & Gina Kling
- *Number Talks: Whole Number Computation*, Parrish
- *Number Talks: Fractions, Decimals, and Percentages*, Parrish & Dominick
- *Building Powerful Numeracy for Middle and High School Students*, Harris
- *Lessons and Activities for Building Powerful Numeracy*, Harris

INSTRUCTIONAL TOOLKIT

[Building Fact Fluency, Fletcher & Zager](#)

WEBSITES

[Math Fact Fluency Companion Website](#)

[Procedural Fluency in Mathematics: A Position of the National Council of Teachers of Mathematics](#)