

## **Bibliography - Elementary Math Content & Pedagogy**

**Bassarear, Tom. *Mathematics for Elementary School Teachers*. Boston: Houghton Mifflin, 1997.**

This text offers future teachers a comprehensive mathematics course designed to foster concept development through examples, investigations, and explorations.

**Burns, Marilyn. *About Teaching Mathematics: A K-8 Resource*. 3rd ed. Sausalito, CA: Math Solutions Publications, 2007.**

This resource helps teachers build student understanding and skills and understand how children best learn math.

**Cameron, Antonia, Sherrin B. Hersch, and Catherine Twomey. Fosnot. *Addition and Subtraction Minilessons, Grades PreK-3: Facilitator's Guide*. Portsmouth, NH: Heinemann, 2004.**

In *Addition and Subtraction Minilessons*, clips of real teachers conducting effective minilessons in real classrooms show you how these short, focused sessions can build big mathematical thinking in young learners.

**Cameron, Antonia, Catherine Fosnot, Suzanne Werner, and Sherrin Hersch. *Minilessons for Operations with Fractions, Decimals, and Percents, Grades 5-8: Facilitator's Guide*. Portsmouth, NH: Heinemann, 2006.**

In this guide, clips of teachers conducting effective minilessons in real classrooms show you how these short, focused sessions can build big mathematical thinking in young learners.

**Cameron, Antonia, Carol Teig, Sherrin Hersch, and Catherine Twomey Fosnot. *Multiplication and Division Minilessons Grades 3-5*. Portsmouth, N.H: Heinemann, 2005.**

In *Multiplication and Division Minilessons*, clips of teachers conducting effective minilessons in real classrooms show you how these short, focused sessions can build big mathematical thinking in young learners.

**Chapin, Suzanne H., and Art Johnson. *Math Matters: Understanding the Math You Teach, Grades K-8*. Sausalito, CA: Math Solutions Publications, 2006.**

This book contains activities and discussions on key elementary topics such as whole number computation, fractions, algebra, geometry, and measurement.

**Fosnot, Catherine, Maarten Dalk and Willian Jacob. *The Complete Mathematicians at Work Series*. Portsmouth, NH: Heinemann, 2010.**

1. **Constructing Number Sense, Addition, and Subtraction**
2. **Constructing Multiplication and Division**
3. **Constructing Fractions, Decimals, and Percents**
4. **Constructing Algebra**

The series is a foundational resource for student teachers, classroom teachers and coaches. The four volumes provide practical, child-centered methods to support educators in helping children think deeply about mathematics.

**Small, Marian. *Big Ideas from Dr. Small: Creating a Comfort Zone for Teaching Mathematics, Grades K-3*. Toronto: Nelson Education, 2010.**

**Small, Marian. *Big Ideas from Dr. Small: Creating a Comfort Zone for Teaching Mathematics, Grades 4-8*. Toronto: Nelson Education, 2009.**

Big Ideas from Dr. Small provides math teachers with what they need to know to teach the curriculum while focusing on the big ideas for each math concept. Each book includes hundreds of practical activities and follow-up questions.

**West, Lucy, and Toni Cameron. *Agents of Change: How Content Coaching Transforms Teaching and Learning*. Heinemann, 2013.**

The position of instructional coach can be a potent lever for system-wide improvement of teaching and learning. Coaches can be change agents to the adult professional culture as well as resources to individual teachers.

**West, Lucy. *Adding Talk to the Equation: Discussion and Discovery in Mathematics*. NY: Stenhouse, 2018.**

Designed for math teachers and coaches in grades 1–8, this self-study guide showcases elementary and middle school classrooms where teachers inspire even the most reluctant students to share their ideas.



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