

## Literature Base for *Bridges in Mathematics* Third Edition

The following list includes influential works in mathematics education for the practitioner and school- or district-based instructional leader. Along with <u>previous Math Learning Center publications</u> (including previous editions of Bridges in Mathematics, Math and the Mind's Eye, Box it or Bag it, Opening Eyes to Mathematics, and Visual Mathematics), these works influenced the design of Bridges in Mathematics Third Edition. Also available are a <u>more inclusive list of resources</u> and a <u>Google sheet</u>.

Aguirre, J., Mayfield-Ingram, K., & Martin, D. (2013). *The impact of identity in K–8 mathematics: Rethinking equity-based practices.* National Council of Teachers of Mathematics.

Baroody, A. J., Lai, M., & Mix, K. S. (2005). The development of young children's number and operation sense and its implications for early childhood education. In B. Spodek & O. Saracho (Eds.) *Handbook of Research on the Education of Young Children*. Routledge.

Bay-Williams, J., & Kling, G. (2019). *Math fact fluency: 60+ games and assessment tools to support learning and retention*. Association for Supervision and Curriculum Development.

Blanton, M. L., Levi, L., Crites, T., & Dougherty, B. J. (2011). *Developing essential understanding of algebraic thinking, grades 3–5*. National Council of Teachers of Mathematics.

Bresser, R., Melanese, K., Sphar, C., Felux, C. (2009). *Supporting English Language Learners in Math Class: A Multimedia Professional Learning Resource: Grades K-5*. Math Solutions.

Carpenter, T. P., Fennema, E., Franke, M. L., Levi, L., & Empson, S. B. (2015). *Children's mathematics: Cognitively Guided Instruction* (2nd ed.). Heinemann.

Carpenter, T. P., Franke, M. L., & Levi, L. (2003). *Thinking mathematically: Integrating arithmetic and algebra in elementary school.* Heinemann.

Chval, K., Lannin, J., & Jones, D. (2013). *Putting essential understanding of fractions into practice in grades 3-5*. National Council of Teachers of Mathematics.

Chval, K. B., Smith, E, Trigos-Carrillo, L., & Pinnow, R. J. (2021). *Teaching math to multilingual students: Positioning English Learners for success*. National Council of Teachers of Mathematics.

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Empson, S. & Levi., L (2011). *Extending children's mathematics: Fractions and decimals*. Heinemann.

Fosnot, C. T. (2010). *Models of intervention in mathematics: Reweaving the tapestry*. National Council of Teachers of Mathematics.

Fosnot, C. T., & Dolk, M. (2001). Young mathematicians at work: Constructing multiplication and division. Heinemann.

Fosnot, C. T., & Dolk, M. (2001). Young mathematicians at work: Constructing number sense, addition, and subtraction. Heinemann.

Fosnot, C. T., & Dolk, M. (2002). Young mathematicians at work: Constructing fractions, decimals, and percents. Heinemann.

Fosnot, C. T., & Jacob, B. (2010). *Young mathematicians at work: Constructing algebra*. Heinemann.

Franke, M. L., Kazemi, E., & Turrou, A. C. (2018). *Choral counting & counting collections: Transforming the preK-5 math classroom.* Stenhouse.

Goldenberg, E. P., & Clements, D. H. (2014). *Developing essential understanding of geometry and measurement, preK–grade 2.* National Council of Teachers of Mathematics.

Huinker, D., & Bill, V. (2017). *Taking action: Implementing effective mathematics teaching practices, K–grade 5.* National Council of Teachers of Mathematics.

Humphreys, C., & Parker, R. (2015). *Making number talks matter: Developing mathematical practices and deepening understanding, grades 4–10.* Stenhouse.

Kazemi, E., & Hintz, A. (2014). *Intentional talk: How to structure and lead productive mathematical discussions*. Stenhouse.

Kobett, B. M., & Karp, K. S. (2020). *Strengths-based teaching and learning in mathematics: Five teaching turnarounds for grades K-6*. Corwin.

Lambert, R. (2021). The magic is in the margins: UDL math. *Mathematics Teacher: Learning and Teaching PK-12*, *114*(9), 660-669.

Lamon, S. J. (2012). *Teaching fractions and ratios for understanding: Essential content knowledge and instructional strategies for teachers* (3rd ed.). Routledge.

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Lehrer, R., & Slovin, H. (2014). *Developing essential understanding of geometry & measurement, grades 3–5*. National Council of Teachers of Mathematics.

National Council of Teachers of Mathematics. (2014). *Principles to actions: Ensuring mathematical success for all.* Author.

National Council of Teachers of Mathematics. (2020). *Catalyzing change in early childhood and elementary mathematics: Initiating critical conversations.* Author.

National Council of Teachers of Mathematics. (2023). *Procedural fluency in mathematics: Reasoning and decision-making, not rote application of procedures position.* A position of the National Council of Teachers of Mathematics. Author.

Otto, A., Caldwell, J., & Hancock, S. W. (2011). *Developing essential understanding of multiplication and division for teaching mathematics in grades 3–5*. National Council of Teachers of Mathematics.

Parrish, S. (2010). *Number talks: Helping children build mental math and computation strategies, grades K–5.* Math Solutions.

Richardson, K. (2012). *How children learn number concepts: A guide to the critical learning phases.* Math Perspectives Teacher Development Center.

Richardson, K., & Dolphin, S. (2020). *Number talks in the primary classroom.* Math Perspectives Teacher Development Center.

Seda, P., & Brown, K. (2021). *Choosing to see: A framework for equity in the math classroom*. Dave Burgess Consulting, Inc.

Shumway, J. F. (2011). Number sense routines. Stenhouse.

Silver, E. A., & Mills, V. L. (Eds.). *A fresh look at formative assessment in mathematics teaching*. National Council of Teachers of Mathematics.

Small, M. (2019). Understanding the math we teach and how to teach it K–8. Stenhouse.

Smith, M. S., & Stein, M. K. (2018). 5 practices for orchestrating productive mathematics discussions (2nd ed.). National Council of Teachers of Mathematics.

Van de Walle, J. A., Karp, K. S., & Bay-Williams, J. M. (2023). *Elementary and middle school mathematics: Teaching developmentally* (11th ed.). Pearson.

Wilson, P. H., Myers, M., Edgington, C., & Confrey, J. (2012). Fair shares, matey, or walk the plank. *Teaching Children Mathematics*, *18*(8), 482-489.