Books and Articles List

he following list of resources provides a starting point to support your development of learning progressions and unit level progressions.

• *Adding it Up* explores how students in pre-K through eighth grade learn various mathematics topics.

Download it, or read online for free at <u>http://www.nap.edu/catalog.php?record_id=9822</u>.

• *Developing Essential Understandings* book series is published by the National Council of Teachers of Mathematics (NCTM) (<u>http://www.nctm.org</u>). Each book provides an overview of a mathematics topic and examines the big ideas and related essential understandings.

See complete list of available resources at <u>http://www.nctm.org/search/?cp=1&ty=&ky=essential%20understandings&tp=6807&dt=0</u>

• *First Steps Mathematics* is published by the Department of Education Western Australia. Included in the resources are mathematical understandings.

Portions of the materials can be downloaded or reviewed online for free at <u>http://www.det.wa.edu.au/stepsresources/detcms/navigation/first-steps-mathemat</u> ics/?oid=MultiPartArticle-id-13603817.

• *How Students Learn* is a teacher-oriented, research-based resource developed by members of the National Research Council's Committee that builds on learning principles discussed by the committee in a previous publication, *How People Learn*.

The book can be downloaded or read online for free at <u>http://www.nap.edu/openbook</u>.<u>php?record_id=10126</u>.

• *Mathematics Curriculum Topic Study* provides a systematic process and set of tools that links mathematics standards and research to curriculum, instruction, and assessment.

Additional information about the resource can be found at <u>http://www.curriculumtopic</u> <u>study.org/products/mathematics-cts</u>.

• *NCSM Big Ideas Article* was written by Charles Randall and published in the National Council of Supervisors of Mathematics (<u>http://www.mathedleadership.org/</u>) journal in 2005. The paper describes understandings that underlie elementary mathematics, grouping them into categories of big ideas.

The article can be downloaded at <u>http://www.mathedleadership.org/resources/jour</u> <u>nalsvol8.html</u>.

• *NCTM Journal Articles* provides numerous articles across K–12 mathematics. With a membership subscription, you can search the online database for topic and grade level specific articles.

Retrieved from the companion website for *Bringing Math Students Into the Formative Assessment Equation: Tools and Strategies* for the Middle Grades by Susan Janssen Creighton, Cheryl Rose Tobey, Eric Karnowski, and Emily R. Fagan. Copyright © 2015 by Corwin. Thousand Oaks, CA: Corwin, www.corwin.com

The database can be accessed at <u>http://www.nctm.org/publications/default.aspx?id=218</u>.

• *Progressions Documents for the Common Core Mathematics Standards* are narrative documents describing the progression of a topic across a number of grade levels.

The documents can be downloaded at <u>http://ime.math.arizona.edu/progressions/</u>.

• *Rational Number Project* is a website focused on the teaching and learning of ideas related to rational numbers.

Links to numerous articles on rational number topics can be found at <u>http://www.cehd</u>.umn.edu/ci/rationalnumberproject/bib_chrono.html.

- Keeley, P., & Rose, C. (2006). *Mathematics curriculum: Bridging the gap between standards and practice.* Thousand Oaks, CA: Corwin.
- Kilpatrick, J., Swafford, J., & Findell, B. (Ed.). (2001). *Adding it up: Helping children learn mathematics*. Washington, DC: National Academy Press.
- National Research Council. (2005). *How students learn: Mathematics in the classroom*. Washington, DC: The National Academies Press.
- Charles, R. I. (2005). Big ideas and understandings as the foundation for elementary and middle school mathematics. *NCSM Journal of Mathematics Education Leadership*, *8*(1), 9–24.
- Rational Number Project. (2002). *Chronological bibliography.* Retrieved from http://www.cehd.umn.edu/ ci/rationalnumberproject/bib_chrono.html.

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