Appendix C

Further Reading/Resources

Online

Mathematics Content, Standards, and Virtual Manipulatives
http://www.achievethecore.org
A nonprofit organization dedicated to helping teachers and school leaders implement high-quality, college- and career-ready standards. The site includes planning materials, professional development resources, assessment information, and implementation support.

http://illustrativemathematics.org
A variety of videos, tasks, and suggestions for professional development accessible to all teachers.

http://ime.math.arizona.edu/progressions
The series of progressions documents written by leading researchers in the field summarizing the standards progressions for specific mathematical content domains.

http://nlvm.usu.edu
The National Library of Virtual Manipulatives offers a library of uniquely interactive, web-based virtual manipulatives or concept tutorials for mathematics instruction.

Sources for Problems, Tasks, and Lesson Protocols

https://bstockus.wordpress.com/numberless-word-problem
Numberless word problems designed to provide scaffolding that allows students the opportunity to develop a better understanding of the underlying structure of word problems.

https://gfletchy.com
3-Act Lessons and Mathematical Progressions videos for Grades K–7.

http://www.pz.harvard.edu/projects/visible-thinking
Harvard Zero Project describes thinking routines that can be applied to K–12 mathematics classrooms.

http://illuminations.nctm.org
A collection of high-quality tasks, lessons, and activities that align with the Common Core standards and include the standards for mathematical practice.

http://mathforum.org
The Math Forum at NCTM provides a plethora of online resources, including Problem of the Week and the Notice and Wonder protocol.

http://mathpickle.com
A free online resource of original mathematical puzzles, games, and unsolved problems for K–12 teachers. It is supported by the American Institute of Mathematics.
http://nrich.maths.org
Free enrichment materials, curriculum maps, and professional development for mathematics teachers.

http://www.openmiddle.com
A crowd-sourced collection of challenging problems for Grades K–12. Open middle problems all begin with the same initial problem and end with the same answer, but they include multiple paths for problem solving and require a higher depth of knowledge than most problems that assess procedural and conceptual understanding.

http://robertkaplinsky.com/lessons
A collection of free real-world, problem-based lessons for Grades K–12.

http://www.stevewyborney.com
A collection of ideas and activities for K–8 teachers.

Books


