Appendix: Additional Resources for Parents

This appendix provides an annotated list of additional resources parents might find useful as they support their child's mathematics learning. The resources include print materials to further their understanding of mathematics education, online games, and websites offering additional mathematics sources.

Figure This! (http://figurethis.nctm.org): NCTM developed this resource to help families enjoy mathematics outside of school through a series of fun and engaging, high-quality challenges. Check out the Family Corner for tips on helping your child with mathematics.

Gamequarium (www.gamequarium.org/dir/Gamequarium/Math): This free web resource provides grade-level practice for all mathematics standards and supports student practice at home for additional skill building.

***Helping Your Child Learn Mathematics* (U.S. Department of Education, 2005) (www2.ed.gov/parents/academic/help/math/math.pdf):** This free guide discusses what it means to be a problem solver, communicate mathematically, and demonstrate reasoning ability. It also includes many suggestions for activities you can use to help your child develop mathematics skills. The activities are arranged by level of difficulty and grade level and include a tip box as well as an explanation of the mathematics concept behind each activity. It includes a reference list of mathematics-related resources, including websites, books, computer software, and magazines.

Hooda Math (www.hoodamath.com): This web resource provides hundreds of online games and competitions students can play appropriate to their grade level or mathematics course. It is free and provides additional opportunities for mathematics practice to deepen understanding of concepts in each grade level.

Internet4Classrooms (www.internet4classrooms.com): This web resource provides games and lessons for helping students and parents understand mathematics standards for each grade level in K–12.

***It's Elementary: A Parent's Guide to K–5 Mathematics* (Whitenack, Cavey, & Henney, 2015):** This book helps you to understand elementary-level mathematics and instructional strategies in jargon-free language.

Khan Academy (www.khanacademy.org): Khan Academy provides video mathematics lessons on a variety of topics. These videos can provide a supplementary resource and 24/7 tutoring.

LearnZillion (www.learnzillion.com): LearnZillion provides videos that provide conceptual development and practice for all grade levels and mathematics courses. This website provides great tutorials for parents as well.

Math Forum (http://mathforum.org): Have a mathematics question? Ask Dr. Math at the Math Forum. You or your child can pose a question or browse the extensive archive of previously asked questions and responses.

The National Council of Teachers of Mathematics (NCTM) (www.nctm.org): Founded in 1920, NCTM is the world's largest mathematics education organization. NCTM is the public voice of mathematics education, dedicated to ensuring all students receive the highest quality mathematics education. The NCTM website contains a wealth of information and resources for both educators and parents.

***A Parent's Guide to Helping Your Child With Today's Math* (National Education Association, n.d.) (www.nea.org/assets/docs/HE/44013_NEA_W_L9.pdf):** This web resource explains how current mathematics instruction differs from instruction in the past and offers suggestions for ways you can help your child with mathematics.

Teaching and Learning Mathematics With the Common Core (www.nctm.org/Standards-and-Positions/Common-Core-State-Standards/Teaching-and-Learning-Mathematics-with-the-Common-Core): NCTM and the Hunt Institute produced a series of videos designed to help you understand the mathematics your child requires to be successful in the early years through high school to prepare for college, life, and careers. The videos examine why developing conceptual understanding requires a different approach to teaching and learning than you likely experienced as a student.

The video topics include:

- Building conceptual understanding for mathematics
- Mathematics in the early grades
- Developing mathematical skills in upper elementary grades
- Mathematical foundations for success in algebra
- Preparation for higher-level mathematics
- Standards for mathematical practice
- Parents supporting mathematics learning

***What's Math Got to Do With It?: How Teachers and Parents Can Transform Mathematics Learning and Inspire Success* (Boaler, 2015):** In this inspiring book, Stanford University professor Jo Boaler reviews research on the brain and mathematics learning and provides practical suggestions for supporting student learning.

YouCubed at Stanford University (http://youcubed.org): This Stanford University website provides free resources for both teachers and parents.