

Appendix L

“Must-See” Math Websites



This list will get you started on finding a variety of websites to support the planning and delivery of mathematics instruction. Some of these sites offer fun classroom activities, while others provide valuable teacher resources. Many of the sites are free, but some may require a fee to subscribe.

Websites to Explore

Mathematics Professional Organizations and Standards

- <http://www.nctm.org>—National Council of Teachers of Mathematics (NCTM)
- <http://www.mathedleadership.org>—National Council of Supervisors of Mathematics
- <http://www.corestandards.org>—Common Core State Standards for K–12 Mathematics

Rich Math Tasks and Teaching Resources

- estimation180.com—Estimation 180: A collection of lessons and photos to enhance students’ estimation skills and generate math thinking.
- <https://gfletchy.com/3-act-lessons/>—GFletchy: This collection of standards-based 3-act tasks by Graham Fletcher contains photo and video tasks to engage students in mathematical thinking.
- <https://illuminations.nctm.org/>—Illuminations: This website of the National Council of Teachers of Mathematics hosts lessons, templates, and applets focused on K–12 math standards.

- <https://www.illustrativemathematics.org/>—Illustrative Mathematics: The Illustrative Mathematics site is filled with standards-based lessons that challenge students' thinking.
- <http://www.insidemathematics.org/common-core-resources/mathematical-content-standards>—Inside Mathematics: This site from the Charles A. Dana Center at The University of Texas at Austin contains a collection of math tasks categorized by grade level and standard.
- learnzillion.com—LearnZillion: A collection of standards-based math videos and lessons.
- <http://nlvm.usu.edu/en/nav/vlibrary.html>—National Library of Virtual Manipulatives: This site provides access to a multitude of virtual manipulatives at all grade levels.
- <https://nrich.maths.org/>—NRICH: This UK site hosts a wealth of challenging math tasks.
- ntimages.weebly.com—Number Talk Images: This site is a collaborative project dedicated to gathering interesting images to be used as a launching point for Number Talks.
- <http://www.openmiddle.com/>—Open Middle: This site contains a collection of open middle tasks that challenge students' mathematical thinking and test their perseverance.
- <http://www.stevewyborney.com/?p=893>—Splat: This site, by Steve Wyborney, is filled with interactive Splat lessons that focus on part-whole relationships.
- <https://www.youcubed.org/>—You Cubed: Through this website, Stanford University professor Jo Boaler and her colleagues offer tasks, resources, math apps, and research about teaching mathematics.

Interactive Math Games

- www.coolmath4kids.com—Coolmath 4 kids: This site offers a variety of games and activities including a lemonade stand simulation, tessellation demonstrations, fractals, and much more.
- www.funbrain.com—Fun Brain: A variety of math skills can be reviewed through interactive games like Measure It!, Math Baseball, Shape Surveyor, Change Maker, and Fresh Baked Fractions. Activities are for grades K–12.
- <http://gregtangmath.com/games>—Greg Tang Math: This site of author Greg Tang hosts a variety of online math games.
- <https://www.mathlearningcenter.org/resources/apps>—The Math Learning Center: Free math apps are available from this Math Learning Center site.
- <http://www.mathplayground.com/>—Math Playground: Math Playground has a variety of math games, word problems, logic puzzles, and videos for grades PK–8.
- <http://www.pbskids.org>—PBS Kids: This site offers a variety of interactive math games featuring PBS characters.
- <http://www.sesamestreet.org/games>—Sesame Street: Primary students explore interactive games about numbers and counting on this Sesame Street website.
- www.usmint.gov/kids—United States Mint: This website of the U.S. Mint has games, cartoons, fun facts, and lesson plans for money activities K–12.

Teacher Resources and Professional Learning

- www.heinemann.com—Heinemann: Heinemann publishes a wide variety of professional books and offers workshops, on-site professional development, webinars, and on-demand (online) courses for teachers.
- <https://www.heinemann.com/mathinpractice/>—Math in Practice: This Heinemann Publishing Company site includes videos and resources for teaching math K–5.
- Math in Practice Facebook group (request to join the group)
Join this group of K–5 educators to chat about topics related to K–5 math teaching and learning.
- <https://mathsolutions.com/>—Math Solutions: Math Solutions publishes professional books and provides a variety of professional development options.
- www.qualityteacherdevelopment.com—Quality Teacher Development: This site provides links to K–5 math professional development led by Sue O'Connell and her colleagues and includes lists of math resources and blog posts.
- <https://www.youcubed.org/>—You Cubed: This site offers professional development designed by the You Cubed Team at Stanford University.