

To Keep Your Brain Working Over the Summer!

Problem Solving:

- Middle School Problem of the Week (from MathCounts):
<http://mathcounts.org/resources/problem-of-the-week>
- Problems of the Week for Different Levels (Primary, Pre-Algebra, Algebra, Geometry):
<http://mathforum.org/pows/>

Great Math/Logic Games:

- Play Sudoku: <http://www.websudoku.com>
- Play Kakuro: <http://www.kakuroconquest.com>
- Play KenKen: <http://www.kenken.com/#>

Recommended Middle School Reading:

- *In Code: A Mathematical Journey* **by David Flannery, Sarah Flannery**
The story of Sarah Flannery, a sports-loving teenager from Blarney in County Cork, who was awarded Ireland's Young Scientist of the Year for her extraordinary research and discoveries in Internet cryptography.
- *Math Doesn't Suck: How to Survive Middle School Math Without Losing Your Mind or Breaking a Nail, Kiss My Math: Showing Pre-Algebra Who's Boss, and Hot X: Algebra Exposed!* **by Danica McKellar**
From a well-known actress, math genius and popular contestant on "Dancing With The Stars"—a groundbreaking guide to mathematics for middle school girls, their parents, and educators
- *The Universe and the Teacup: The Mathematics of Truth and Beauty*
by K.C. Cole
Shows us—with humor and wonderfully accessible stories—why math need not be frightening. Using the O. J. Simpson trial, the bell curve, and Emmy Noether, the nineteenth-century woman scientist whose work was essential for Einstein's theory of relativity, Cole helps us see that more than just being a tool, math is a key to understanding the beauty of everything from rainbows to relativity.

More in-depth math reading:

- *The Golden Ratio: The Story of Phi the World's Most Astonishing Number*
by Mario Livio
- *The Millennium Problems: The Seven Greatest Unsolved Mathematical Puzzles of Our Time*
by Keith Devlin