

# **Do the Math: Incorporating Math and Numbers Into Library Programming**

Wendy Lichtman

## **Bibliography**

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- ❑ Do the Math: Secrets, Lies, and Algebra by Wendy Lichtman
- ❑ The Writing on the Wall by Wendy Lichtman
- ❑ My Life As A Rhombus by Varian Johnson
- ❑ An Abundance of Katherines by John Green
- ❑ Domino Addition by Lynette Long
- ❑ Dominoes Around the World by Mary Lankford and Karen Dugan
- ❑ Sam and the Lucky Money by Karen Chinn
- ❑ Math Games and Activities Around the World by Claudia Zaslavsky
- ❑ Designing Tessellations: The Secrets of Interlocking Patterns by Jinny Beyer
- ❑ Tessellations: The History and Making of Symmetrical Designs by Pamela Geiger Stephens
- ❑ Introduction to Tessellations by Dale Seymour and Jill Britton
- ❑ M.C. Escher: His Life and Complete Graphic Work by F. H. Bool
- ❑ The Phantom Tollbooth by Norton Juster
- ❑ The Dot and the Line: A Romance in Lower Mathematics by Norton Juster
- ❑ The Complete Book of Origami: Step-by Step Instructions in Over 1000 Diagrams by Robert J. Lang
- ❑ Easy Origami by Dokhohtei Nakano and Eric Kenneway
- ❑ Origami Math by Karen Baicker
- ❑ Origami Activities: Asian Arts & Crafts for Creative Kids by Michael G. LaFosse
- ❑ Murderous Maths by Kjartan Poskitt
- ❑ The Egypt Game by Zilpha Keatley Snyder
- ❑ The Cryptoclub: Using Mathematics to Make and Break Secret Codes by Janet Beissinger and Vera Pless
- ❑ Alexander, Who Used to Be Rich Last Sunday by Judith Viorst
- ❑ The Get Rich Quick Club by Dan Gutman
- ❑ Lunch Money by Andrew Clements
- ❑ Complete Math Smart (workbooks) by Popular Book Company
- ❑ The Greedy Triangle (Brainy Day Books) by Marilyn Burns
- ❑ The Grapes of Math (Mind-Stretching Math Riddles) by Greg Tang and Harry Briggs
- ❑ Family Math for Young Children (Equals Series) by Grace Coates
- ❑ Lemonade for Sale by Stuart Murphy
- ❑ Math Doesn't Suck by Danica McKeller
- ❑ Math Fables by Greg Tang and Heather Cahoon

## URLs and Additional Ideas

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### Pi Day

[www.piday.org](http://www.piday.org)

This is the official site for Pi Day (celebrated on March 14) but many other sites offer programming ideas. Education World's site, [www.education-world.com/a\\_lesson/lesson/lesson335.shtml](http://www.education-world.com/a_lesson/lesson/lesson335.shtml), includes lesson plans, trivia games, songs, etc.

### Exploratorium

[www.exploratorium.edu](http://www.exploratorium.edu)

In addition to offering resources for Pi Day celebrations ( $\pi$ ), San Francisco's hands-on museum provides a rich variety of resources related to science and math. Check out the Math Explorer activity database for great ideas for crafts, games, and other activities.

### Mathematician's Birthday Calendar

<http://mathforum.org/~judyann/calendar>

Celebrate math almost any day of the year. Includes quotations from famous mathematicians and a link to biographies of women mathematicians.

### Conceptual Math Media

[www.conceptualmathmedia.com](http://www.conceptualmathmedia.com)

This company produces math board games, including Equate.

### The United States Playing Card Company

[www.usplayingcard.com/gamerules/childrenscardgames.html](http://www.usplayingcard.com/gamerules/childrenscardgames.html)

This site provides rules for popular card games and includes information about the skills developed by young players. Use the drop down menu box to view rules for other card games.

### Domino Rules

[www.dominorules.com](http://www.dominorules.com)

From the basics to complex games, this domino manufacturer provides all the facts. Also provides information on local domino clubs around the country.

### Fun Brain: Math Baseball

[www.funbrain.com/math/index.html](http://www.funbrain.com/math/index.html)

Solve math problems to hit a home run! Check out other math games for various ages and abilities.

### Cool Math

[www.coolmath.com](http://www.coolmath.com)

In addition to games and activities, this site offers a great math dictionary with visual explanations of math terms.

Figure This

[www.figurethis.org](http://www.figurethis.org)

A wealth of ideas encouraging families to use math outside of school. Resources include PowerPoint slides for a presentation on math challenges for families that includes some of the research on math skills. Some resources in Spanish.

The Official M. C. Escher Website

[www.mcescher.com](http://www.mcescher.com)

Everything about Escher is here, including links to sites that include his work.

Tessellations: Escher and How to Make Your Own

[www.tessellations.org](http://www.tessellations.org)

This child-friendly site explains a variety of ways to create tessellations, just like Escher.

What Is: Mathematical Symbols?

[http://searchdatacenter.techtarget.com/sDefinition/0,,sid80\\_gci803019,00.html](http://searchdatacenter.techtarget.com/sDefinition/0,,sid80_gci803019,00.html)

More math symbols than you can image are shown and explained.

CryptoKids: America's Future Codemakers & Codebreakers

[www.nsa.gov/kids/home.cfm](http://www.nsa.gov/kids/home.cfm)

The National Security Agency provides brain-stretching games and activities, as well as background information on codes and ciphers throughout history, in a cartoon character environment.

Enchanted Learning

[www.enchantedlearning.com](http://www.enchantedlearning.com)

This education site provides downloadable coloring and activities sheets, plus craft ideas and games, including Zoom Dinosaurs where children solve the codes to identify various dinosaurs. Use the search function to find math items.

Cryptoclub

<http://cryptoclub.math.uic.edu/indexmain.html>

Part of the University of Illinois, this site includes fun math tools, ciphers, and things to do.

NOVA Pyramids

[www.pbs.org/wgbh/nova/pyramid](http://www.pbs.org/wgbh/nova/pyramid)

The website for this PBS television program includes information about hieroglyphics, including a challenge to crack the code at [www.pbs.org/wgbh/nova/pyramid/hieroglyph/](http://www.pbs.org/wgbh/nova/pyramid/hieroglyph/).

Road Trip to Savings

[www.practicalmoneyskills.com/english/pop/games/p\\_road\\_trip.html](http://www.practicalmoneyskills.com/english/pop/games/p_road_trip.html)

Teens can learn to “steer their way” to financial responsibility with this online game. Lesson plans provided by Practical Money Skills also offer programs and activities for various age groups.

Simpsons Math

[www.simpsonsmath.com](http://www.simpsonsmath.com)

Two professors provide information on the math in The Simpsons cartoon series, including problems (and solutions) to math puzzles presented in the show. Also offers links to other math role-models from Hollywood and pop culture and to articles on the impact of math stereotyping on students.

Wendy Lichtman

[www.wendylichtman.com](http://www.wendylichtman.com)

Information on Wendy's books, her life, and more. Go to [www.wendylichtman.com/webinar](http://www.wendylichtman.com/webinar) to download today's presentation.

### **Additional Readings and Resources**

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Math and Fiction? Math and Social Change? by Wendy Lichtman.

[www.powells.com/fromtheauthor/lichtman.html?&PID=11](http://www.powells.com/fromtheauthor/lichtman.html?&PID=11)

“Math in the Library?” by Robin Henry. *Library Media Connection*, October 2004. pp. 36-38.

“Picture Books + Math = Fun” by Sheri McDonald and Sally Rasch. *Book Links*, November 2004. pp. 9-14.

“Pictures + Words + Math = Story” by Stuart J. Murphy. *Book Links*, November 2006. pp. 34-35.

*Radical Equations: Civil Rights from Mississippi to the Algebra Project* by Robert Moses.

Math Counts

[www.mathcounts.org](http://www.mathcounts.org)

PBS Teachers: Math

[www.pbs.org/teachers/math](http://www.pbs.org/teachers/math)

Principles and Standards for School Mathematics

<http://standards.nctm.org>

What's the Big Idea?

[http://bigidea.mothergooseprograms.org/m\\_WTBI\\_overview.php](http://bigidea.mothergooseprograms.org/m_WTBI_overview.php)

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