LIVING MATH THROUGH HISTORY

Intermediate Level Booklist

History Cycle 1, Quarter Unit 2: The Alexandrian Golden Age and Medieval Mathematics

If using book lists without purchasing plans, please consider purchasing books through the Amazon affiliate links on the Living Math site to benefit Living Math, or enter through http://www.amazon.com/exec/obidos/redirect-home/livingmath-20

Note: These are the books recommended for approximately 4^{th} through 7^{th} grade levels. For children who border the lower end of this age group, supplementing or substituting some of the higher level Primary level math readers may be appropriate. Refer to the Primary level booklists and plans for easier reading level suggestions.

Joy of Mathematics by Theoni Pappas. Math vignettes to inspire exploration		
Math Talk Poetry in Two Voices by Theoni Pappas. Poetry in two voices		
Mathematicians Are People, Too Vol. 1 by Luetta Reimer and/or String, Straightedge & Shadow by Julia Diggins, story-like math history, the latter is a little more advanced.		
Math History readers: One or more, according to your child's ability:		
For younger readers in this age group:		
The History of Counting by Denise Schmandt-Besserat.		
From Zero to Ten by Vivian French. A cartoon type resource with humor.		
Go Figure! by Johnny Ball: DK style book, not nearly as much text or story telling, has outstanding pictures		
For older readers in this age group:		
The Wonderful World of Mathematics by Lancelot Hogben. This is a classic you'll see listed on many math reading lists, older style of writing.		
Mathematics: The World of Science by Irene Fekete: P. 24 - 27 - excellent.		
The Pantheon Story of Mathematics for Young People - P. 29-33. Upper level used for Advanced, but a 5th+ could enjoy, or read aloud.		
Marvels of Math, Kendall Haven.		

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Volume 2 of the Mathematicians Are People Too by Luetta Reimer. Volume 2 is scheduled for Cycle 2, but two stories in this book fit the lessons here very well.
Science in the Past Series history of ancient science w/ chapters on mathematics. Short books with lots of pictures. Ancient Rome and Early Islamic Culture used in this quarter. OR:
The Story of Science by Joy Hakim, middle school+ level
Optional Historical Context - Story of the World Vols. 1 and 2 by Susan Wise Bauer and/or Ten Kings by Milton Meltzer
Mathfocus The Journey of Al & Gebra to the Land of Algebra by Bethanie Tucker Ed.D, Explains algebra step by step in a story line, wide age range applicability
MathFocus Math Smart Junior - Marcia Lerner - Pre algebra
Mathfocus Realm of Algebra by Isaac Asimov, out of print, may be difficult to find, for upper age range in this group
Rome Antics and City: A Story of Roman Planning and Construction by David Macaulay, these books show history in the context of buildings, the drawings are very good illustrations of geometric principles in life. The first one is for younger children.
Additional David Macaulay books: Mosque, Cathedral, Castle
One Grain of Rice, Demi and for The King's Chessboard, David Birch - for younger readers in this age level. These are classics, less juvenile in presentation.
The Man Who Counted, Malba Tahan.
Math Smart Junior - Marcia Lerner
The Egyptian News by Scott Steedman (section on Alexandria) and The Roman News by Andrew Langley (tabloid-style history reader)
Number Art: Thirteen 123s From Around the World by Leonard Fisher, beautifully illustrated book showing similarities and differences between numerals.

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Seven Daughters and Seven Sons by Barbara Cohen, historical fiction set in medieval Arabia, optional reading for historical context
Fascinating Fibonaccis, Mystery and Magic in Numbers, by Trudi Hammel Garland, excellent book on Fibonacci numbers in art and nature. Fibonacci Fun by the same author is a book of activities based on Fibonacci numbers if you would like to try more activities on Fibonacci numbers than are included in the lessons.
Magical Mystery Tour by Mark Dahl. Excellent activity book for Fibonacci numbers and the Golden Mean.
Right in Your Own Backyard Nature Math, Time Life "I Love Math" series (out of print, but there seems to be a steady supply of affordable used copies available), These go up to about 5^{th} grade level.
Math Curse by Jon Scieska and Lane Smith, classic math tale (the teacher's name is Mrs. Fibonacci).
DaVinci: There are many to choose from. When we study an individual like this, we usually select several sources as some will emphasize his art, some his science, some his life and times.
Upper Elementary Biographies: The Genius of Leonardo by Guido Visconti, contains quotations from Leonardo's notebooks Leonard da Vinci for Kids: His Life and Ideas, by Janis Herbert - Nice photos and includes 21 activities Leonardo, Beautiful Dreamer, by Robert Byrd Leonardo da Vinci by Diane Stanley DaWild, DaCrazy, DaVinci - Easy chapter book Time Warp Trio book by Jon Scieszka, author of Math Curse Advanced: Great Minds of Science: Leonardo da Vinci, Genius of Art and Science, by Jennifer Reed
Stories Based on DaVinci's Life: Leonardo's Horse by Jean Fritz Leonardo and the Flying Boy, by Laurence Anholt The Second Mrs. Giaconda by L.E. Konigsburg

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	Math and Art Concept Readers - Any that you have access to, these apply to a wide age range in appeal and applicability Zoom and Re-Zoom, by Istvan Banyai Reflections and Round Trip by Ann Jonas - These are very cleverly done Art Fraud Detective: Spot the Difference, Solve the Crime! by Anna Nilsen and the companion on Modern Art, The Great Art Scandal. Seen Art? By Jon Sciezka - just for fun if you like this author
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	Advanced: Mathematics in Art by Michael Holt
	The Number Devil by Hans Magnus Enzensberger - wide age range appeal and applicability
▼"	Roman City (PBS Home Video) Based on the David Macaulay book, City.
	History of Science: Antiquity to 1700 (Teaching Company Series v.teach12.com) Parent resource (college level)

Joy of Thinking Video Series - (Teaching Company Series www.teach12.com)

accessible to middle school level on up, or parent resource