Get ready to discover mathematics all around you this fall!

Just like reading, regular practice with problem solving, computation and math facts will maintain and strengthen the mathematic gains you have made over the school year.

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Enjoy these activities to explore problem solving at home. The goal is for you to have fun thinking and working collaboratively to communicate mathematical ideas.

While you are working ask how the solution was found and why a particular strategy helped you solve the problem.

Math Journals are an excellent tool for helping children record their perceptions about math and the strategies they employ to arrive at a solution. A math journal is a book in which children record their math work and thinking. At home a math journal can be used to:

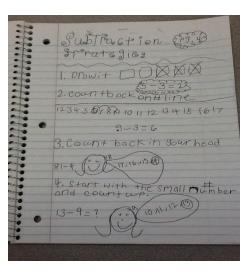
Record the solutions to math problems or projects , along with the strategy and thought processes used to arrive at the solution
 For instance a math problem or project may require some time (perhaps days) to arrive at a solution and a math journal helps children to reflect on their thought processes as well as strategies that did and did not work.

Write about learning: When children students are asked to reflect on their math learning. For example, children may be asked to write
about "what you already know about" before beginning an activity or "think about what you did today, what your learned, and
any questions you have", or "the three most important things you learned from this activity." These opportunities to journal provide
children with metacognitive occasions to think about their thinking or consider points that were not clear. As well as to return at a
later time to clarify their thinking.

By dating entries the journal provides a chronological record of the development of a child's mathematical thinking throughout the year.

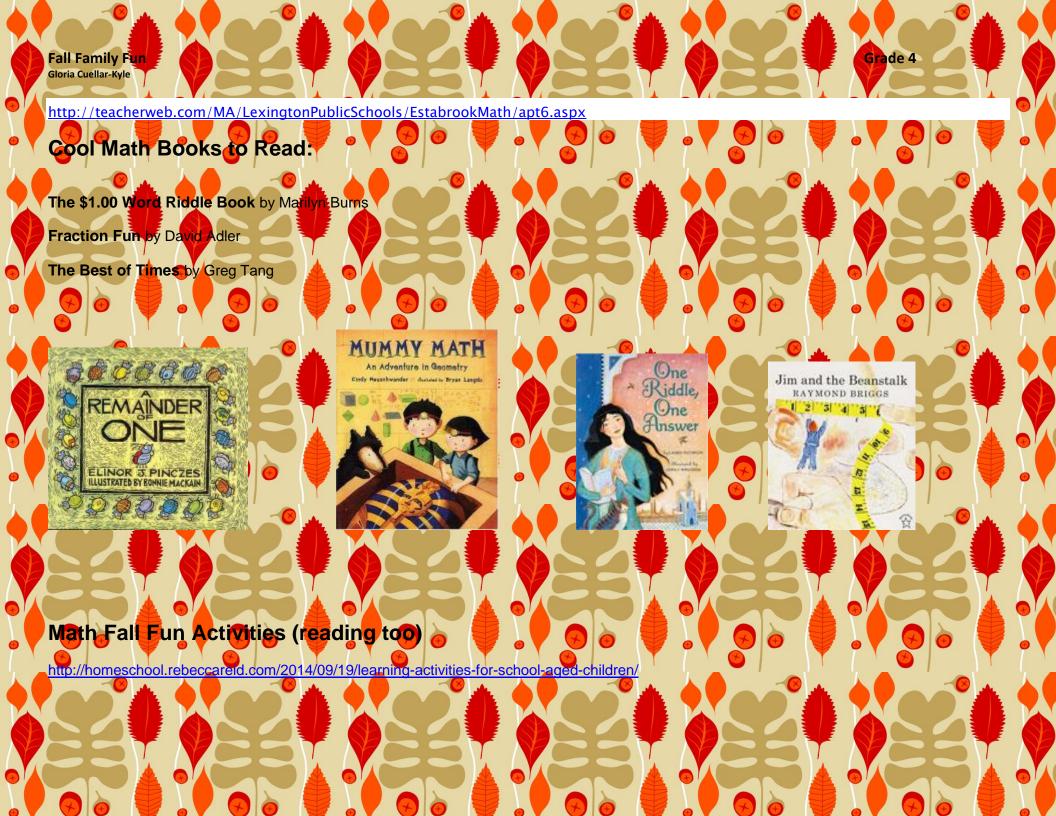
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Math Journals Boost Learning http://teacherweb.com/MA/LexingtonPublicSchools/EstabrookMath/2001_Math_Journals-5.pdf



Math Literature Connection

Educational research has shown that students taught mathematics via connections to children's literature become better critical thinkers and problem solvers, and become better able to connect mathematical ideas to personal and real-life experiences. Check out these delightful stories that combine entertainment with Math.

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8'D'Cluck	Schola	astic		🕼e / 🔰 / 💆 /
10 for Dinner	ScHola	astic	Aogart	Addition, measurement
12 Circus Rings	Voger	Н.В.	Chwast C	counting, ordinal
17 Kings & 42 Elephant	s Puffin	Pied Riper N	Margaret Mahy	Counting, multiplying
26 letters and 99 cents	Green	willow	lobas P	Proportion
100th Day Worries	Simor	n & Schuster 🕑 🛛 C	Cuyler	ounting 6
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Fall Family Fun Gloria Cuellar-Kyle				3
Annie, Bea, and Chi CHi Dolores	Orchard Books Abrahms	Maurer Base •	Patterns & Graphing	
Anno's Counting	Harper Collins Rutnam & Grossett	Anno	Counting	
Anno's Maqic Seeds	Harper Collins	Anno	Counting, Addition	2
Anno's Math Games	Harper Collins	Anno		R
Anno's Mysterious Multiplying Jar Actic Fives Arrive	Scholastic	Pinczes	multiplication, factorials	
Arror to the Sun	Viking	McDermott	patterns, geometry	
The Baker's Dozen	Afadefin Scholastic	Shepard Appelt	counting	3
Bella's Mystery Book (Set of Cards)				0
Beeny's Pennies	Dell	Brisson	Money	0
The Best Bug Parade Betcha!	Harper/Trophy	Stuart Murphy Murphy	Measurement, comparison Estimating	2
Big Buck Adventure	Charlesbridge	Gil	money	R
The Big Green Pocketbook	Harper Trophy Millbrook	Ransom Packard		•
The Biggest Nose	Houghton Mifflin	Caple	measurement	0
Biggest, Strongest, Fastest	Houghton Mifflin	Jenkins	measurement	3

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	Fall Family Fun Gloria Cuellar-Kyle		370		Grade 4
P	The Brand New Kid	Doubleday	Couric		
•	Bugs on the Go	Little Simon	Carter	Counting • • • • •	
6	Bunches & Bunches of Bunnies	Scholastic	Louise Mathews	counting	
	Bugs at Play	Little Simon	Carter	counting	
	Bunny Money	Puffin Books	Rosemary Wells	money	VCSV
•	The Button Box	Puffin	Reid	patterns & sorting	
•	Caps fo Sale	Harper Collins	Slobodkina 👩	Counting, combinations, Sorting 🕤 😁	
6	Cat Up a Tree	Houghton Mifflin	Hassett	Counting	
	Cereal Math	Scholastic	Yeatts		
V	Chicka Chicka Boom	Ataddfin	Bill Martin Jr	primary counting	VEST
9	Chrysanthemum	Mulberry	Henkes	Patterns	
•		Addison Wesley	Ross	Geometry Go Go	
	A Cloak for the Dreamer	Scholastic	Friedman	Geometry, tesselations	
	The Coin Counting Book	Charlesbridge	R. L. Williams	money	
V	Cookie's Week	Paperstar	Watd	Calendar	VEET
9	Counting On Frank		Clements	estimating, measurement	
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Games To Play 9 (You will need a deck of cards, with all the face cards removed. Treat the Ace as the number 1.)

1 Multiplication War - Deal out all the cards equally between 2 or 3 players. Each player turns over 2 cards and multiplies the numbers together. The person with the higher product wins the pile of cards. If you have the same product repeat the procedure. The winner takes all of the cards.

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2. <u>Multiplication Strikeout</u> is like hangman, but with numbers! It will have you guessing the digits in a multiplication question. Try to find out what multiplication question it is, with as few strikes as possible! Compare your stats with the rest of the world! Can you beat everybody else? Can you guess the mystery multiplication puzzle with no strikes at all? And.... can you do it without a calculator??

3. Division- Envision the concept of division. Choose a number and make as many division problems as possible from that number. Use the handy draw tool to make groups from stars. For example, if you were to choose 16, you would see 16 stars on the stage. Simply draw circles around four groups of four stars to make the problem 16 (divided by symbol) 4 = 4. See how long it takes you to divide 16 by as many numbers as possible that divide evenly. http://mrnussbaum.com/crvision-divis

4. Division - http://www.sheppardsoftware.com/mathgames/menus/division.htr

5. Close to 1000 - Deal 8 cards to each player. Use any 6 of your cards to make two 3-digit numbers. Try to get a sum that is close to or equal to 1000. Write these 2 numbers in your journal. Your score is the difference between your number and 1000.

Example: Your eight cards are 1, 5, 4, 3, 1, 8, 3, 8

You can combine 148 + 853 = 1001. Your score is 1 since the difference between 1007 and 1000 is 1. Discard the 6 used cards and pick 6 new cards. Whoever has the lowest total score after 5 rounds wins the game.

6. Fractions - http://www.sheppardsoftware.com/math.htm#fraction

7. Fraction Dominoes - http://www.dr-mikes-math-games-for-kids.com/tractions-dominoes.html

8. At Home Hands-On Fraction Activities - http://jimmie.squidoo.com/hands-on-fractions

9. Tony's Fraction Pizza Shop: In Tony Fraction's Pizza Shop, learners play the role of a pizza shop owner who must fulfill as many of his customer orders as possible in five minutes. Tony's customers, however, order their toppings in unusual fractions and learners must apply knowledge of equivalent fractions to be successful. http://mrnossbaum.com/pizza_game

Other Games to Play:

Monopoly, Othello, Battleship, Connect Four, Mastermind, Mancala, Legos, K'Nex, Simon, Yahtzee, Rummikub, Check out the PDF: Making Math

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Fun Websites to Explore All Year Long:

http://mathwire.com/problemsolving/probs34/html

http://www.mathblaster.com/teachers/math-problems/4th-grade-math-ptoblems

http://www.funbrain.com

http://www.setgame.com

http://www.aplusmath.com

http://www.multiplication.com

http://www.coolmath4kids.com

http://wwwmathplayground.com

http://www.iltuninations.nctm.org Click on ACTIVITIES Click on 3-5 and press SEARCH.

Brain Teasers



http://www.eduplace.com/kids/mhm/brain/gr4/

http://www.yummymath.com/

