## MATH! ALL SUMMER LONG

LuTili
What would happen if a musician put down his instrument in June, did not play it all summer, and then tried to perform at a concert in September? He would probably give a "not so stellar" performance due to lack of practice. This is also true for students who do not practice academic skills over the summer months - they experience summer learning loss.

## What does the research show?

- Most students lose about 2.6 months of "grade level equivalency" in math over the summer vacation.
$\square$ Summer has a greater effect on math learning loss than reading learning loss.
T The level of learning loss in math is similar among all children, regardless of socio-economic status. Researchers believe this occurs because, though many children have multiple opportunities to read over the summer, few are likely to practice math skills outside of a classroom setting.
$\square$ Over a child's school career, the negative impact of summer vacations on achievement has a cumulative effect....and it adds up quickly!
(Sources: The Effects of Summer Vacation on Achievement Test Scores by Cooper, Nye, Charlton, Lindsay, and Greathouse, Review of Educational Research, Vol. 66, No. 3, 1996 \& Center for Summer Learning at www.summerlearning.org.)

We can deduce from the research that it is important to encourage children to practice math, in addition to reading, during the summer. But, not to worry - it can be fun!

## What can families do to encourage math learning?

## O Talk to teachers.

Ask your children's teachers what they were learning in math when the school year ended. Get suggestions on what they should practice over the summer to stay sharp!

## Play games at home.

Any game that requires players to use money, counting, or other math skills can be a worthwhile way to spend time. The classics, such as Monopoly, PayDay, and Life are just a few that encourage children to practice math skills indirectly.

## MATH! ALL SUMMER LONG...CONTINUED

## O Encourage math skills practice on the Internet.

There are many interactive Web sites designed for children and teens to practice math. Most libraries are equipped with Internet-connected computers for patrons to use free of charge. Connect to these fun sites, either at the library or at home:

- www.funbrain.com: This site lets "mathematicians" hone their skills while playing games such as Tic-Tac-Toe. Solve the problem correctly and claim a square! In Math Baseball, FunBrain creates a problem to solve. Players answer, "swing" and find out if they've hit a single, double, etc. Wrong answer = OUT! Levels of games range from easy to SUPERBRAIN.
$\square$ www.coolmath4kids.com: This Web site has ArithmATTACK - a game that challenges players to solve as many arithmetic problems as they can in 60 seconds. Other games \& math word searches are also available. Older children \& teens can work on more difficult mathematical concepts, such as geometry, on this Web site.
$\square$ www.figurethis.org: Figure This! Math Challenges for Families has word problems to solve, hints on how to help kids in math and suggestions on talking about the math that is often integrated into children's books. Older children can check out Math Challenges for Middle School Families. Activities from this site can be downloaded into PDF format in English and Spanish.
$\square$ www.aplusmath.com: Children can create on-line math worksheets from basic operations, to fractions, money, order of operations, and more. There are also fun games to play.
$\square \quad$ www.m759.freeservers.com/puzzle.html: Older children and teens will get a kick out of this on-line puzzle, The Diamond 16, that illustrates the theory of symmetry.


## O Integrate math into every day activities.

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| :--- |
| 20 |When grocery shopping with your young child, talk about the prices on items. Point out how $\$ 1.50$ means "one dollar \& 50 cents." You can say, " 50 cents is...( 50 pennies $/ 5$ dimes $/ 2$ quarters) Show them what a penny, dime, or quarter looks like.

Have your children help count items you are purchasing, such as fruit \& vegetables. Your first or second graders may be able to answer questions such as, "We can buy 2 cucumbers for $\$ 1$. How many can we get for \$2?" Then ask, "How did you get your answer?" Don't worry if they get it wrong - it's all in good fun, and good practice!

Point to the checkout line that says, "15 items or less" or "12 items or less." Ask him, "Do you think we can go in that line? Do we have fewer than 15 items in our basket/cart?"

Estimate how much the whole order will ring up to. Make a game out of it. This is a great exercise in 'mental math.' Who came closer?

Give older children the responsibility of selecting items for an event, such as a picnic. Give them a small budget and encourage them to compare products to find the best value. This is a good way to talk about "unit pricing." Talk about why a package of 10 rolls for $\$ 2$ is a better deal than the 8 -roll package for the $\$ 1.95$. Many kids think the cheaper one is the better value, without realizing how the size/quantity of the product matters. See how they did at the register. Did they stay within the budget?

When clothes shopping, encourage older children to calculate how much you will save on an item that is " $20 \%$ off."

Introduce your children to the concept of saving and budgeting using family outings. When you take your children out to a movie or museum, have your children calculate how much the family will need for tickets, concessions, parking (if applicable), etc.

## MATH! ALL SUMMER LONG...CONTINUED

## O Talk about math while reading:

Reading books to your children that integrate mathematical concepts into the story can be beneficial to your child in that they:
$\square$ Introduce your child to new math vocabulary. Understanding math vocabulary is essential for understanding problems on the MCAS math section.
$\square$ Introduce your child to new math concepts.
$\square$ Reinforce concepts and math vocabulary that your children may have learned in school.

Provide illustrations of mathematical concepts, making them easier for young children to grasp (especially those visual learners.)
$\square$ Reinforce reading while learning about math, a double benefit!
$\square$ Demonstrate that math truly is everywhere and relevant to our daily lives.
$\square$ Demonstrate that math can actually be fun (imagine that!)
$\square$ Act as a springboard for fun, home activities that reinforce the mathematical concepts in the books.

The following pages contain a number of such books, divided loosely by age range. Some series, such as Hello Reader! Math and Mathstart, have suggestions for extension activities in the back of each book. The activities reinforce the math concepts demonstrated in the book, and can be done in the classroom or at home. For your reference, it has been noted next to the titles if the book is part of the Mathstart or Hello Reader! Math Series. In addition, some of the stories have Web-based follow-up activities. Titles with a computer mouse next to them have an accompanying on-line activity. Visit www.math.youngzones.org/literature.html to access these follow-up activities and lessons.

## Before reading a book to your child:

$\square$ Keep in mind that though a book may be organized in an age range category, it may not be suitable for your child - maybe it is too challenging, or not challenging enough. As a parent, you know your children, and their reading abilities, best. Try to choose books accordingly. Your children will also let you know if a book is too easy, boring, or difficult for them.
$\square$ There are many great books out there. Unfortunately, there are many so-so ones, too. Some can be downright confusing. You may want to read a book before sharing it with your children. You can also read book reviews on line at www.amazon.com or www.bn.com. You can even write a review (or encourage your child to write an on-line review) of a book you read together.

# MATH! ALL SUMMER LONG...CONTINUED 

## SUGGESTIONS ON HOW TO TALK WITH YOUR CHILDREN ABOUT THE MATH WOVEN INTO THEIR BOOKS

The following excerpts are from children's books that have mathematical concepts woven into them. Here's how parents can use books to engage in dialogue about math with children.
$\square$ Sample Text from Seventeen Kings and 42 Elephants by Margaret Mahy and Patricia MacCarthy, 1972.

## Excerpt 1:

"Seventeen Kings on forty-two elephants going on a journey through the wild, wet night."

## Sample follow-up question:

If there are 17 Kings and 42 Elephants, are there some elephants riding without a King? How many? (using subtraction-42 elephants - 17 Kings $=25$ elephants riding alone.)
"Forty-two elephants - oh, what a lot of 'ums, Big feet beating in the wet wood shade."

## Sample follow-up question:

If there are 42 elephants, how many "big feet" are there? (using multiplication: 42 elephants $\times 4$ feet per elephant $=168$ total feet.)
$\square$ Sample Text from Amanda Bean's Amazing Dream: A Mathematical Story by Cindy Neuschwander, Liza Woodruff, \& Marilyn Burns, 1998.

## Excerpt:

"The countertop," I say, "I must count these tiles. There are 12 columns of tiles. There are 12 tiles in each column. It is a long time before I count all 144 of them. I am Amanda Bean and I like to work quickly. Maybe multiplying would be faster.

Sample follow-up: Use the pictures in the book to talk about math. Have your child look at the picture on the page (a grid of tiles on Amanda Bean's counter top.) See how long it takes to count all the tiles. Demonstrate how multiplying is quicker. Then, look at the jars of pickles on the shelf over the counter top. There are five jars with three pickles in each one. Ask, "Using multiplication, how many pickles are there on this page?" ( 5 jars $\times 3$ pickles $=15$ pickles.) There are follow-up activities for teachers and parents in the back of the book.

## A few pointers:

Don't over do it with too many follow up questions - you don't want to break the rhythm of the story too much.

$\square$ If your children are not interested in talking about the math in the story (you may hear, "DAAAAD!, just read the story!) don't press the issue. You want reading to be an enjoyable time, not something your children dread. Follow their lead and enjoy!

# Children's Books that contain Mathematical Concepts Baby - Preschool (0 to 3 or 4 years old) 

Before your children even get to school, you can read books with them that have math woven right into the stories! And, it's never too early to start reading to your children.

## Addition \& Subtraction

Carle, Eric
LeSieg, Theo; Seuss; Mckie, Roy
Mack, Stanley
Moerbeek, Kees

Aker, Suzanne; Karlin, Bernie
Alda, Arlene
Axtell, David
Bang, Molly
Bang, Molly
Beaton, Clare
Boynton, Sandra
Carle, Eric
Carle, Eric
Christelow, Eileen
Christelow, Eileen
Dena, Anael; Eho, Jerome
Deschamps, Nicole; Ward, Kristin
Foreman, Michael
Gibson, Barbara
Greenstein, Elaine
Grossman, Virginia; Long, Sylvia
Hamm, Diane Johnston et. al.
Hill, Eric
Hoban, Tana
Hoban, Tana
Hoban, Tana
Hutchins, Pat
Jackson, Woody
Johnston, Tony
Keats, Ezra Jack
Kitamura, Satoshi
Mackinnon, Debbie
Martin, Bill
Maurer, Donna; Cazet, Denys
Mora, Pat; Lavalee, Barbara
O'Donnell, Elizabeth; Schwartz, Carol
Oxenbury, Helen
Pallotta, Jerry; Masiello, Ralph
Peek, Merle
Priddy, Roger
Rey, Margaret
Root, Phyllis; Chapman, Jane
Sanchez, Ricardo
Scarry, Richard
Schnetzler, Pattie L.
Sendak, Maurice
Sis, Peter
Sloat, Teri
Tafuri, Nancy

Rooster's Off to See the World (2002)
Ten Apples Up On Top (1998)
Ten Bears in My Bed: A Goodnght Countdown (1974) (subtract from 10)
Six Brave Explorers: A Pop Up Book (1997)

## Counting:

What Comes in 2's, 3's \& 4's? (1992)
Arlene Alda's 1, 2, 3 -What Do You See? (1998)
We're Going on a Lion Hunt (South African Tale) (2000)
Ten, Nine, Eight (1998)
Diez, Nueve, Ocho (spanish version) (1999)
One Moose, Twenty Mice (1999)
Doggies: A Counting and Barking Book (1995)
1, 2, 3 to the Zoo: A Counting Book (1996)
The Very Hungry Caterpillar (1994)
Five Little Monkeys Sitting in a Tree (1999)
Five Little Monkeys Jumping on the Bed (counting \& subtraction) (1998)
Numbers (2002)
My First Number Board Book (1999)
Dad! I Can't Sleep
A Pile of Puppies (1993)
Dreaming: A Countdown to Sleep (2000)
Ten Little Rabbits (native Americans)(1998)
How Many Feet in the Bed? (1994)
Spot Can Count (counting to 10)
26 Letters and 99 Cents (1995)
123 (1985)
Count and See (1972)
One Hunter (1986)
Counting Cows (1999)
Whale Song (1992)
Over in the Meadow (1999)
When Sheep Cannot Sleep (1988)
How Many? (1993)
Knots on a Counting Rope (1997)
Annie, Bea and Chi Chi Dolores
Uno, Dos, Tres= One, Two, Three
Winter Visitors (1997)
Numbers of Things (counting to 50) (1983)
The Icky Bug Counting Book (1992)
Roll Over! : A Counting Song (1999)
Baby's Book of the Body (2001)
Curious Georges 1 to 10 and Back Again (2001)
One Duck Stuck (2001)
Numeros=Numbers (1994)
Richard Scarry's Best Counting Book Ever (1975)
Ten Little Dinosaurs (2000)
One was Johnny: A Counting Book (1991)
Waving: A Counting Book (1988)
From One to One Hundred (counting to 100) (1995)
Who's Counting? (1986)

# Children's Books that contain Mathematical Concepts Baby - Preschool (0 to 3 or 4 years old) <br> Counting (continued): 

Tucker, Sian
van der Meer, Mara
Walsh, Ellen Stoll
Weihs, Erika
Williams, Roseanne
World Wildlife Fund

Brown, Margery W.; Blair, Culverson
Carle, Eric
Carle, Eric
Ehlert, Lois
Hoban, Tana
Hoban, Tana
Hoban, Taba
Jonas, Ann
MacKinnon, Debbie; Sieveking, Anthea
Rogers, Paul; Tucker, Sian
Tompert, Ann; Parker, Robert Andrew
Van Fleet, Matthew

123 Count With Me: My First Lift-the-Flap Counting Book (1996)
How Many Monsters? (2000) (sorting and selecting from 1-10)
Mouse Count (1995)
Count the Cats (1976)
Five Little Monsters (1995) (counting, sorting, 1-1 correspondence)
World Wildlife Fund Animals 1, 2, 3 (?)

## Geometry \& Shapes:

Afro-Bets Book of Shapes (1991)
The Secret Birthday Message (geometric shapes)(1998)
The Very Busy Spider (1995)
Color Farm (1997) (shapes and colors)
I Read Signs (1987)
Shapes, Shapes, Shapes (1996)
Spirals, Curves, Fanshapes and Lines (1992)
Round Trip (Pre-K geometry) (1990)
Eye Spy Shapes: A Peephole Book (2000)
The Shapes Game (1990)
Grandfather Tang's Story (tangram animals) (1997)
Fuzzy Yellow Ducklings:
Fold Out Fun with Textures, Colors, Shapes, Animals (1995)

## Measurement \& Size:

Papa, Please Get the Moon for Me (1999)
Large as Life (1991)
Big Baby (1998)
The Biggest Boy (1998)
Happy Birthday Sam (1991)
Blue Sea (size) (1992)

## Number Sense \& Patterns:

A Three Hat Day (1987) (permutations \& combinations)
Exactly the Opposite (1997)
The Napping House (2000) (patterns)

## Probability:

Jesse Bear, What Will You Wear? (1996) (combinations)

## Money:

Teddy Bears Go Shopping (1982)

## Problem Solving:

Too many Hopkins (1989) (sequencing events)
The Owl and the Pussycat (1997)
Swimmy (1991) (problem solving)

## Time:

What Time is it, Clifford? (1998) (has moveable clock hands )
When I Learn to Tell Time (1990)
P. Bear's New Year's Party (1999)

Emma's Christmas (1992) (12 days of Christmas)

# Children’s Books that contain Mathematical Concepts <br> Preschool - Grade 2 ( 3 to 7 or 8 years old) 

Below are some recommended titles for children Preschool-Grade 2. As a parent, you know your child's reading level and interests. Some of these book may not be challenging enough for advanced readers. Browse through books to see if they are suited to your individual child's abilities.

## Addition \& Subtraction:

Burningham, John
Choraw, Kay
Dunbar, Joyce; Majewska, Maria
Gibson, Ray
Gisler, David; Beise, Sara
Harris, Trudy; Griffis Johnson, Beth
Leedy, Loreen
Long, Lynette
Long, Lynette
Long, Lynette
Rocklin, Joanne; Lemelman, M.
MacCarone, Grace, et. al.
Murphy, Stuart J.,et. al.
Murphy, Stuart J., et. al
Murphy, Stuart J., et. al
Murphy, Stuart J.,et. al
Murphy, Stuart J., et. al
Murphy, Stuart J., et. al
Pallotta, Jerry; Bolster, Rob
Pallotta, Jerry; Bolster, Rob
Small, David
Sturges, Philemon; Vojtech, Anna

Allbright, Viv
Anno, Mitsumasa
Anno, Mitsumasa
Anno, Mitsumasa
Berenstain, Stan \& Jan
Blumenthal, Nancy; Kaufman, Robert
Brett, Jan
Bridgman, Elizabeth P.
Brooks, Bruce
Brown, Marc Tolon
Bursik, Rose
Carter, David
Cave, Kate \& Riddell
Cherrill, Paul; Sawick, Norma Jean
Clement, Rod
Cleveland, David
Cole, Norma; Peck, Marshall
Crews, Donald
Cuyler, Margery; Howard, Arthur
Dee, Ruby; Meddaugh, Sarah
Duke, Kate; Bonnel, J.
Dunrea, Olivier
Ehlert, Lois
Eichenberg, Fritz
Enderle, Judith; et. al.
Evans, Lezlie; Roche, Dennis
Falwell, Cathryn
Feelings, Tom \& Muriel L.

The Shopping Basket (1987) (subtraction to 21)
Number One, Number Fun (1995) (add/subtract)
Ten Little Mice (1995) (subtraction for 10)
I Can Add Up (1999)
Addition Anne (2002)
100 Days of School (1999)
Mission-Addition (1999)
Domino Addition (1996)
Sumemos Con El Domino (1996)
Dealing with Addition (1998)
Just Add Fun (7-9 years) HELLO READER! MATH
Monster Math Picnic (1998) HELLO READER! MATH
A Fair Bear Share (1998) (regrouping in subtraction) (6-8 years) MATHSTART
Animals on Board (addition) (1999) MATHSTART
Elevator Magic (subtraction) (1997) (WEBPAGE) (6-8 years)MATHSTART
Monster Musical Chairs (2000)(subtraction)(3-6 years)MATHSTART
Ready, Set, Hop! (1996) (addition/subtraction) (7-9 years) MATHSTART
The Shark Swimathon (2000) (subtraction) (7-9 years) MATHSTART
The Hershey's Kisses Subtraction Book (2002)
The Hershey's Kisses Addition Book (2000)
Imogene's Antlers (2000)
Ten Flashing Fireflies (1997) (add \& subtract by ones)

## Counting:

Ten Go Hopping (1985)
Anno's Counting Book (1986)
Anno's Counting House (1982)
Anno's Flea Market (1984) (classification)
Berenstain Bears' Counting Book (1976)
Count-a-saurus (1989)
The First Dog (1999)
All the Little Bunnies (1977)
NBA by the Numbers (1997)
One, Two, Three: An Animal Counting Book (1976)
Zoe's Sheep (1994)
How Many Bugs in a Box? : A Pop Up Counting Book (1988)
Out for the Count (1992)
Ten Tiny Turtles: A Crazy Connting Book (1995)
Counting on Frank (1991)
April Rabbits (ordinal, cardinal numbers)(1985)
Blast Off! A Space Counting, Book (1994) (counting large numbers)
Ten Black Dots (1986)
100th Day Worries (2000)
Two Ways to Count to Ten (1990)
One Guinea Pig is Not Enough (2001)
Deep Down Underground (1989)
Fish Eyes: A Book You Can Count On (1992)
Dancing in the Moon (1989) (counting rhymes)
Six Snowy Sheep (1995)
Can You Count 10 Toes (count to 10 in 10 different languages) (1999)
Feast for 10 (1995)
Moja Means One: Swahili Counting Book (1992)

# Children's Books that contain Mathematical Concepts Preschool - Grade 2 ( 3 to 7 or 8 years old) 

Friedman, Aileen; Guevara, Susan
Geisert, Arthur
Giganti, Paul; Crews, Donald \& Cohn, Amy
Grover, Max
Harley, Bill; Harril, Kitty
Harwayne, Shelley; Farr, Teresa
Haskins, James
Inkpen, Mick
Jernigan, Gisela
Kahn, Katherine
Kasza, Keiko
Kindersley, Dorling
Kitchen, Bert
Koller, Jackie French; Munsinger, Lynn
Koomen, Michele
Kuskin, Karla; Cartwright, Reg
Hughes, Shirley
Lesser, Carolyn; Regan, Laura
Leydenfrost, Robert J
Lindberg, Reeve; Jeffers, Susan
Lobel, Anita
Loomis, Christine; Eitan, Ora
MacCarthy, Patricia
Mahy, Margaret; Ogden, Betina
Marsh, T. J.
Martin, Bill; Sampson, M. \& Cahoon, H.
Mazzola, Frank
McGrath, Barbara
Merriam, Eve; Gorton, Julia; Horton, J.
Merriam, Eve; Karlin, Bernie
Milstein, Linda Breiner
Moore, Inga
Moss, Lloyd; Priceman, Marjorie
Nolan, Helen; Walker, Tracy
Onyefulu, Ifeoma
Owens, Mary Beth
Pallotta, Jerry; Biedrzycki
Patten, J. M.
Patten, J. M.
Petersham, Maud \& Miska
Pilegard, Virginia Walton; Debon, Nicolas
Pomerantz, Charlotte
Reiss, John
Rosen, Michael; Iwai, Melissa
Ryan, Pam; Benrei, H. \& McCormack, E.
Ryan, Pam Munoz et. al.
Sierra, Judy; Hillenbrand, Will
Toft, KimMichelle; Sheather, Allan
Thronhill, Jan
Tudor, Tasha
Wadsworth, Ginger; Needham, James
Wahl, John
West, Cindy
Wildsmith, Brian
Winter, Jeanette

## Counting_(continued):

The King's Commissioners (1995)
Roman Numerals I to MM (2001)
How Many Snails? A Counting Book (1994)
Amazing and Incredible Counting Stories! A Number of Tales (1995)
Sitting Down to Eat (1996)
Jewels: Children's Play Rhymes (1995)
Count Your Way Through...(series - Russia, the Arab World, China, Mexico,
Japan, Germany, Africa, Korea, Israel, India, Canada, and Italy)(1988)
One Bear at Bedtime: A Counting Book (1992)
One Green Mesquite Tree (1989)
Alef is One: A Hebrew Alphabet and Counting (1989)
The Wolf's Chicken Stew (counting to 100)(1996)
The Lifesize Animal Counting Book (2001)
Animal Numbers (1991)
One Monkey Too Many (1999)
Numbers: Counting It Up (2001)
James and the Rain (1995)
When We Went to the Park (1985) (Counting to 55) (3-6 years)
Spots: Counting Creatures From Sky to Sea
Ten Little Elephants (1975)
The Midnight Farm (1987)
One Lighthouse, One Moon (2002)
Cowboy Bunnies (1997)
Ocean Parade: A Counting Book
When the Kings Ride By (1995) (counting, classifying)
Way Out in the Desert (1998)
Rock it, Sock it, Number Line (2001)
Counting is for the Birds (1997)
The M \& M's Brand Chocolate Candies Counting Board Book (1994 )
Ten Rosy Roses (1999)
Twelve Ways to Get Eleven (Counting to 11)
Coconut Mon (counting down from 10)
Six Dinner Sid (1998)
Zin! Zin! Zin!: A Violin (1995)
How Much? How Many? How Far? How Heavy? How Long?
How Tall is 1,000 ? (2001) (counting to 1,000 )
Emeka's Gift: An African Counting Book (1999)
Counting Cranes (1993)
Underwater Counting (2001)
Numbers and Age(1996)
Numbers and Counting (1996)
The Rooster Crows: A Book of American Rhymes and Jingles (1987)
The Warlord's Beads (2001)
One Duck, Another Duck (1987)
Numbers (1976)
Chanukah Lights Everywhere (2003)
One Hundred is a Family (1996)
The Crayon Counting Book (1996) (odd/even)
Counting Crocodiles (counting to 26)
One Less Fish (1998)
The Wildlife 12 3: A Nature Counting Book (1989)
1 is One (2000)
One on a Web: Counting Animals at Home (1997)
I Can Count the Petals of a Flower (1985)
Disney Babies 1 to 10 (1991)
Brian Wildsmith's 1, 2, 3's (1999)
Josefina (1996)

# Children's Books that contain Mathematical Concepts Preschool - Grade 2 (3 to 7 or 8 years old) 

## Fractions:

Adler, David; Tobin, Nancy
Dennis, Richard J.
Emberley, Ed
Giganti, Paul \& Crews, Donald
Hutchins, Pat
Lacapa, Kathleen \& Michael
Leedy, Loreen
McMillan, Bruce
Murphy, Stuart J. et. al
Murphy, Stuart J. et. al
Pallotta, Jerry; Bolster, Rob
Pallotta, Jerry; Bolster, Rob
Pomerantz, Charlotte; DeSalvo Ryan, D.
Pinczes, Elinor
Steig, William
Thompson, Lauren; Wingerter, Linda
Ziefert, Harriet; Bolam, Emily

Allen, Pamela
Axelrod, Amy; McGinley-Nally, S.
Bartalos, Michael
Baum, Arline et. al .
Birmingham, Duncan
Brown, Jeff; Bjorkman, Steve
Burns, Marilyn; Tilley, Debbie
Burns, Marilyn; Silveria, Gordon
Carle, Eric
Chavarria-Chairez, Becky ; Vega, A., et. al
Ernst, Lisa Cambell
Ernst, Lisa Cambell
Esterl, Arnica et. al.
Falwell, Cathryn
Friedman, Aileen; Howard, Kim
Grifalconi, Ann
Hoban, Tana
Hoban, Tana
Hoban, Tana
Hoban, Tana
Hopkinson, Deborah; Ransome, James
Hutchins, Pat
Jonas, Ann
Johnston, Tony; De Paola, Tomie
Lasky, Kathryn; Hawkes, Kevin
Lauber, Patricia; Lloyd, Megan
MacCarone, Grace; Kennedy, Anne
MacCarone, Grace
Murphy, Stuart J. et. al
Murphy, Stuart J. et. al
Onyefulu, Ifeoma; Wasinger, Meredith M.

Fraction Fun (1997)
Fractions are Parts of Things (1972)
Emberley's Picture Pie: A Circle Drawing Book (fraction circles) (1984)
Each Orange Had 8 Slices (fractions) (1994)
The Doorbell Rang (1989)
Less Than Half, More than Whole(mixed heritage) (1994)
Fraction Action (halves, thirds, and fourths) (1996)
Eating Fractions (1991)
Give me Half! (1996) (6-8 years) MATHSTART
Jump, Kangaroo, Jump (1999)MATHSTART
Apple Fractions (August 2003)
Hershey's Milk Chocolate Bar Fractions Book (1999)
The Half-Birthday Party (halves) (1984)
Inchworm and a Half (2001)
Pete's A Pizza (1998)
One Riddle, One Answer (2001) (fractions; Persian folktale)
Rabbit and Hare Divide an Apple (1999)

## Geometry \& Shapes:

Mr. Archimedes' Bath (1980) (volume, displacement)
Pigs on the Ball: Fun with Math and Sports (2000) (geometry in mini golf) Shadowville (1995)(symmetry)
Opt: An Illusionary Tale (1997) (optical illusions)
M is for Mirror (1989)
Flat Stanley (1996) (2D and 3d representations)
Spaghetti \& Meatballs for All: A Mathematical Story (1997) (perimeter\& area)
The Greedy Triangle (1995)
Draw Me a Star (1998)
Magda's Tortillas/Las Tortillas de Magda (2000) (shapes - circles and such)
Sam Johnson \& the Blue Ribbon Quilt (1992)
The Tangram Magician (1990)
The Fine Round Cake (1991)
Clowning Around (1991)
A Cloak for a Dreamer (1995) (tessellations)
The Village of Round and Square Houses (1986)
So Many Circles, So Many Squares (1998)
Cubes, Cones, Cylinders, and Spheres (3-d shapes in everyday things) (2000)
Over, Under, and Through and Other Spatial Concepts (spatial sense) (1973)
Shadows and Reflections (1990)
Sweet Clara and the Freedom Quilt (1995)
Changes, Changes (1997) (3-D shapes)
Reflections (1987) (illustrations from different perspectives \& symmetries)
The Quilt Story (1999) (patterns)
The Librarian Who Measured the Earth (1994)
How We Learned the Earth is Round (1992) (circumference)
The Silly Story of Goldie Locks and the Three Squares (1999)
HELLO READER! MATH
Three Pigs, One Wolf, and Seven Magic Shapes (1999) HELLO READER! MATH (tangrams \& geometric shapes)
Captain Invincible and the Space Shapes (2001)(3-D shapes) (6-8 years) MATHSTART
Circus Shapes (estimation) (3-6 years) MATHSTART
A Triangle for Adaora: An African Book of Shapes (2000)
(Nigerian culture; shapes in nature)

# Children's Books that contain Mathematical Concepts <br> Preschool - Grade 2 (3 to 7 or 8 years old) <br> Geometry \& Shapes (continued): 

Paul, Ann Whitford; Winter, Jeannette
Pilegard, Virgina Walton; Debon, Nicolas
Pfanner, Louise
Rocklin, Joanne
Rocklin, Joanne
Ross, Kathy; Barger, Jan
Stamper, Judith Bauer
Testa, Fulvio
Tusa, Tricia
Walter, Marion; Habar-Schaim, Navah

Franco, Betsy
Liatsos, Sandra et. al

Adler, David; Tobin, Nancy
Albee, Sarah et al.
Allard, Harry G.; Marshall, James
Allen, Pamela
Axelrod, Amy; McGinley-Nally, Sharon
Axelrod, Amy; McGinley-Nally, Sharon
Banyai, Istvan
Banyai, Istvan
Blake, Quentin
Brett, Jan
Bridwell, Norman
Briggs, Raymond
Browning, Dave
Browning, Dave
Carle, Eric
Carrick, Carrol \& Donald
Clement, Rod
de Paola, Tomie
Du Quette, Keith
Esbensen, Barbara Juster
Hightower, Susan; Novak, Matt
Hirst, Robin et. al.
Hutchins, Pat
Johnston, Tony; Llyod, Megan
Joyce, William
Keenan, Sheila
Keenan, Sheila et. al
Keller, Holly
Kellogg, Steven
Kirk, Daniel; Paulsen, Nancy
Koller, Jackie French; Catharine O'Neill
Leedy, Loreen
Leedy, Loreen

Eight Hands Round (1996) (quilt patterns)
The Warlord's Puzzle (2000) (tiling and tessellating)
Louise Builds a House(1989) (architectural shapes)
Not Enough Room (1998) (area)
The Case of the Backyard Treasure (1998) (geometric shapes; mental math)
HELLO READER! MATH
Kathy Ross Crafts: Triangles, Rectangles, Circles, and Squares (2002)
(crafts to teach shapes)
Tic- Tac-Toe: Three in a Row (1998) HELLO READER! MATH
If You Look Around You (1997) (geometric shapes)
Maebelle's Suitcase (1991)
Look at Annette (1972) (symmetry with mirrors)

## Math Poems:

Counting Caterpillars and Other Math Poems (1999)
Poems to Count (1999)

## Measurement \& Size:

How Tall, How Short, How Far Away (1999)
The Dragon's Scales (1998) (measurement \& size; comparisons)
Miss Nelson is Missing! (1985)(non-standard measurement)
Who Sank the Boat? (1996) (weight)
Pigs in the Pantry: Fun with Math and Cooking (1999)
(cooking measurements; following recipes)
Pigs on the Move: Fun with Math and Travel (1999) (distance)
Zoom (1995)
Re-Zoom (1998)
Mrs. Armitage on Wheels (1988) (balance, weight, speed, ratio)
Armadillo Rodeo (1995)
Clifford
Jim and the Beanstalk (1997) (a "twisted" tale of measurement \& proportion)
Marvin Measures Up
Marvin Weighs In
The Grouchy Ladybug (1996)
Patrick's Dinosaurs (1985)
Counting on Frank (1998) (volume and other measurements)
Strega Nona (1988)
Hotel Animal (1996)
Star Maiden: An Ojibway Tale (1991)
Twelve Snails to One Lizard (1997)
(non-standard measurement; length; inches/feet/yards)
My Place in Space (1992)
Titch (1993)
Farmer Mack Measures His Pig (1986)
George Shrinks (2000)
The Biggest Fish (1996) HELLO READER! MATH
What's Up with That Cup (2001) HELLO READER! MATH
Jacob's Tree (1999)
Much Bigger Than Martin (1992)
Bigger (1998)
Fish Fry Tonight (1992)
Mappy Penny's World (2000)
Measuring Penny (2000)

# Children's Books that contain Mathematical Concepts Preschool - Grade 2 ( 3 to 7 or 8 years old) <br> <br> Measurement \& Size: 

 <br> <br> Measurement \& Size:}

Lionni, Leo
McMillan, Bruce
Murphy, Stuart J., et. al
Murphy, Stuart J., et. al
Myller, Rolf; McCrath, Susan
Nimmo, Jenny; Howard, Paul
Polacco, Patricia
Rex, Michael
Schwartz, David; Warhola, James
Tafuri, Nancy
Wells, Robert
Wells, Robert; Grant, Christy
Traditional Jack and the Beanstalk

Adams, Barbara Johnston; Zarins, Joyce A.
Axelrod, Amy
Axelrod, Amy; McGinley-Nally, Sharon
Berger, Melvin et.al
Brett, Jan
Brisson, Pat; Barner, Rob
Hoban, Lillian \& Russell
Holtzman, Caren; Day, Betsey
Inkpen, Mick
Leedy, Loreen
MacCarone, Grace
McMillan, Bruce
Murphy, Stuart J., et. al
Murphy, Stuart J., et. al
Nagal, Karen Berman; Zimmerman
Rocklin, Joanne et. al
Rocklin, Joanne et. al
Silverstein, Shel
Schwartz, David; Kellogg, S. \& Cohn, A.
Slater, Teddy; Lewis, Anthony
Smyth, Gwenda; James, Ann
Stewart, Sarah; Small, David
Viorst, Judith; Cruz, Ray
Wells, Rosemary; Axler, Rachel Williams, Vera
Zimelman, Nathan; Slavin, Bill; \& Mathews, Judith

Anno, Masaichiro \&Mitsumasa Appelt, Kathi; Sweet, Melissa
Bruce, Sheila; Billin-Frye, Paige
Buckless, Andrea, et. al.
Crossley-Holland, Kevin; Penny, Ian Demi
Friedman, Aileen; Guevara, Susan
Hong, Lily Toy; Mathews, Judith

Inch by Inch (1995)
Mouse Views: What the Class Pet Saw (1994) (point of view, perspective, size)
The Best Bug Parade (comparing sizes) (1996) (3-6 years)MATHSTART
Super Sand Castle Saturday (1999)(measuring)MATHSTART
How Big is a Foot? (1991)
Esmeralda and the Children Next Door (2000)
Thunder Cake (1997)
The Fattest, Tallest, Biggest Snowman Ever (1997) HELLO READER! MATH
If You Hopped Like a Frog (1999)
The Brass Ring (1996)
Is the Blue Whale the Biggest Thing There Is? (1993)
What's Smaller Than a Pygmy Shrew? (1995)
(WEBPage lesson on estimation and measurement)

## Money:

The Go-Around Dollar (1992)
Pigs Go to Market (shopping for a Halloween Party)
Pigs Will Be Pigs: Fun with Math and Money (1997)
Round and Round the Money Goes: What Money is and How We Use It (1993)
Town Mouse Country Mouse (reprint 2003)
Benny's Pennies (1995)
Arthur's Funny Money (1987)
A Quarter from the Tooth Fairy (1995) (6-8 years) HELLO READER! MATH
The Great Pet Sale (1999) (marketing, sales, price)
The Monster Money Book (2000)
(budgeting, borrowing, checking \& savings accounts)
Monster Money (1999) HELLO READER! MATH
Jellybeans for Sale (1996)
Lemonade for Sale (1998) (bar graphs; money) (6-8 years)MATHSTART
The Penny Pot (1998) (money \& saving) (7-9 years)MATHSTART
The Lunch Line (1999)
How Much is That Guinea Pig in the Window? (7-9 years) (1995)
HELLO READER! MATH
The Case of the Shrunken Allowance (7-9 years) (1999) HELLO READER! MATH "Smart" in Where the Sidewalk Ends (1974)
If You Made a Million (1994)
Max's Money (1999) (7-9 years) HELLO READER! MATH
A Pet for Mrs. Arbuckle (1984)
The Money Tree (1994)
Alexander, Who Used to Be Rich Last Sunday (1980)
Bunny Money (2000) (money to photocopy)
A Chair for My Mother (1984) (saving pennies in a jar)
How the 2nd Grade Got $\$ 8,205.50$ to Visit the Statue of Liberty (1992)
(fundraising)

## Multiplication \& Division:

Anno's Mysterious Multiplying Jar (1999) (factorials)
Bats on Parade (1999)
Everybody Wins! (2001) (division) - web page lesson?
Too Many Cooks (2002) (adjust the recipe for more) HELLO READER! MATH
Under the Sun and Over the Moon (1989) (multiplication)
One Grain of Rice: A Mathematical Folktale(1997)
The King's Commissioners (1995) (multiply to 47; factors; remainders)
Two of Everything: A Chinese Folktale (1993) (multiply by two; doubles)

# Children's Books that contain Mathematical Concepts Preschool - Grade 2 ( 3 to 7 or 8 years old) <br> Multiplication \& Division (continued): 

Hutchins, Pat
Leedy, Loreen
Losi, Carol

Mahy, Margaret; MacCarthy, Patricia
Mathews, Louise; Basset, Jeni
Murphy, Stuart J., et. al
Murphy, Stuart J., et. al
Nesbit, Edith; Lynch, P.J.
Neuschwander, Cindy, et. al
Pallotta, Jerry \& Bolster, Rob
Petty, Kate; Maizels, J.; \& Johnson, D.
Pinczes, Elinor; MacKain, Bonnie
Pinczes, Elinor; MacKain, Bonnie
Rocklin, Joanne
Stevenson, James
Thomspon, Lauren; Wingerter, Linda

Anno, Mitsumasa
Atherlay, Sara; Halsey, Megan
Barry, David; Perone, Donna
Birch, David; Grebu, Davis
Bogart, JoEllen
Brett, Jan
Brown, Marcia
Cristaldi, Kathryn et. al.
Dailey, Don
Gag, Wanda
Kharms, Daniil; Rosenthal, Marc
Hoban, Tana
Huck, Charlotte; Smith, Joseph
Hulme, Joy; Schwartz, Carol
Lord, John Vernon
McKissack, Pat; Schutzer, Dena
Munsch, Robert; Martchenko, Michael
Murphy, Stuart J., et. al
Murphy, Stuart J., et. al
Murphy, Stuart J., et. al
Murphy, Stuart J., et. al
Murphy, Stuart J., et. al
Murphy, Stuart J., et. al
Murphy, Stuart J., et. al
Packard, Edward; Murdocca, Sal
Reid, Margarette; Chamberlain, Sarah
Slater, Teddy
Slobodkina, Esphyr
Turner, Priscilla \& Whitney
Zaslavsky, Claudia; Basset, Jeni

The Doorbell Rang (1989) (division; sharing cookies)
$2 \times 2=$ Boo! A Set of Spooky Multiplication Stories (1995)
The 512 Ants on Sullivan Street (1997) (sequences; doubling to 512) (7-9 years)
HELLO READER! MATH
Seventeen Kings and 42 Elephants (reprint 1997) (multicultural; division; remainders)
Bunches and Bunches of Bunnies (1990) (squaring numbers 1-12; multiplication)
Divide and Ride (1997) (division with no remainder)(7-9 years)MATHSTART
Too Many Kangaroo Things to Do (1996) (multiplication)(7-9 years)MATHSTART
Melisande (1999) (multiplication)
Amanda Bean's Amazing Dream: A Mathematical Story (1998)
The Hershey's Kisses Multiplication Book (2002)
The Amazing Pop-Up Multiplication Book (1998)
A Remainder of One (1995) (factors, remainder, division; ants)
100 Hungry Ants (1999) (remainders)
One Hungry Cat (1997) (division) (6-8 years)
The Mud Flat Olympics (1994)
One Riddle, One Answer (2001)

## Number Sense:

Anno's Hat Tricks (1993)
Math in a Bath \& in Other Fun Places, Too:
Everywhere, Everyday Math Concept Book (1995)
The Rajah's Rice: A Mathematical Folktale from India (1994) (powers of 2)
The King's Chessboard (1993)
10 for Dinner (1989) (Number families for 10; diversity)
Comet's Nine Lives (1996)
Stone Soup (1987) (multicultural; cooking)
Even Steven and Odd Todd (1996)(even/odd numbers)
HELLO READER! MATH
Twelve Days of Christmas Cats (1998)
Millions of Cats (1996)
First, Second (1996)
More, Fewer, Less (1998)
A Creepy Countdown (1998) (Halloween; number correspondence 1-10)
Sea Squares (1993) (square numbers; square roots; arrays)
The Giant Jam Sandwich (1987)
A Million Fish -- More or Less (1996)
Moira's Birthday (estimation) (1989)
Betcha! Estimating (1997)(7-9 years) MATHSTART
Dave's Down to Earth Rock Shop (2000) (set theory; classification)
(7-9 years) MATHSTART
Henry the Fourth (1999) (ordinal numbers)(3-6 years)MATHSTART
Just Enough Carrots (1997) (comparing) MATHSTART
Missing Mittens (2000) (odd and even numbers) (3-6 years) MATHSTART
Rabbit's Pajama Party (1999)(sequences)(3-6 years) MATHSTART
Vroom-Vroom, Beep-Beep (2000) (sequence and patterns) (3-6 years) MATHSTART
Big Numbers: And Pictures that Show Just How Big They Are! (2000)
The Button Box (sorting; comarison) (1990)
Stay in Line (1996)
Caps for Sale: A Tale of a Peddler, Some Monkeys, and Their
Monkey Business (1987) (patterns and permutations)
Among the Odds \& Evens: A Tale of Adventure (1999)
(even/odd numbers and their properties)
Zero: Is it Something? Is It Nothing? (1989)

# Children's Books that contain Mathematical Concepts Preschool - Grade 2 ( 3 to 7 or 8 years old) <br> Probability, Statistics, Data, and Graphing: 

Van Allsburg, Chris
Axelrod, Amy; McGinley-Nally, Sharon
Baylor, Byrd; Parker, Robert Andrew
Blake, Jon; Scheffler, Axel
Bourgeois, Kim; Sarrazin, Marisol
Brett, Jan
Cannon, Jannell
Derby, Sally; Henstra, Frisco
James, Simon
Johnson, Paul
Henkes, Kevin
Holtzman, Caren; Holub, Joan
Murphy, Stuart J. et. al
Murphy, Stuart J. et. al
Ochiltree, Diane et.al
Schotter, Roni; Hafner, Marilyn
Silverstein, Shel
Stinson, Kathy, et. al

Accorsi, William
Armitage, Dave \& Rhonda
Base, Graeme
Burns, Marilyn; Adams, Lynn
Carlson, Nancy
Carroll, Lewis
Folsom, Marcia McClintock et. al
Lobel, Arnold
Rocklin, Joanne
Small, David

Harshman,Marc; Garrison, Barbara
Schwartz, David; Warhola, James -

Anno, Mitsumasa; Briggs, Raymond
Appelt, Kathi; Sweet, Melissa
Axelrod, Amy; McGinley-Nally, Sharon
Behrman, Carol; Takahashi, Hideko
Browne, Eileen; Parkins, David
Chase, Edith
Cowley
Edwards, Richard; Crossland, Caroline
Harper, Dan; Moser, Barry
Hutchins, Pat
Keenan, Sheila
Lillie, Patricia; Crews, Donald
Livingston, Myra C.; Everett Fisher, L.
MacCarone, Grace
McMillan, Bruce
Murphy, Stuart J., et. al

Jumanji (1981) (probability with dice)
Pigs at Odds: Fun with Math and Games (2000)
Guess Who My Favorite Person Is? (1985)
Daley B (1992) (data collection)
Kitty's First Year (2000) (graphs \& charts) (3-6 years)
The Hat (1997)
Stellaluna (1993) (graphing skills; comparison)
The Mouse Who Owned the Sun (1993) (data analysis)
Dear Mr. Blueberry (1996) (certain and impossible probabilities)
The Cow Who Wouldn't Come Down (2002)
Chrysanthemum (1996)
No Fair! (fair games) (1999)
The Best Vacation Ever (1997) (graphs ) (6-8 years)MATHSTART
Probably Pistachio (2001) (probability) (6-8 years)MATHSTART
Bart's Amazing Charts (2001) HELLO READER! MATH
Hannukkah (1990)
"Hungry Mungry" in Where the Sidewalk Ends (reprint 2002)
Red is Best (1988) (data by favorite color)

## Problem Solving:

Billy's Button (1992) (sorting, guessing)
Grandma Goes Shopping (1986) (classifying)
The Eleventh Hour: A Curious Mystery (1989) (critical thinking; 11th birthday)
How Many Feet? How Many Tails? (1996) (math riddles)
HELLO READER! MATH
Harriet's Halloween Candy (2002) (sorting, classifying, comparing)
Tangled Tale (2001) (ten mathematical story puzzles)
Q is for Duck: An Alphabet Guessing Game (1985)
Ming Lo Moves the Mountain (1993)
The Case of the Missing Birthday Party (1997)
Imogene's Antlers (2000)

## Ratio \& Proportion:

Only One (1993) (ratio)
If You Hopped Like a Frog (1999) (ratio, proportion)

## Time:

All in a Day (1999) (seasons, clocks)
Bats Around the Clock (2000) (rhyme about time; bats)
Pigs on a Blanket (1998) (keeping track of time)
The Ding Dong Clock (1999)
Tick Tock (1996) (race against time)
The New Baby Calf/El Ternero Recien Nacido (1997) (seasons)
Our Teacher, Miss Pool (1999) (days week; transportation)
Ten Tall Oaktrees (1993) (time lines)
Telling Time with Big Mama Cat (1998) (book has moveable clock hands)
Clocks and More Clocks (1994) (telling time)
What Time is It: A Book of Math Riddles (5-7 years) HELLO READER! MATH
When This Box is Full (1993)
A Circle of Seasons (1988)
Monster Math School Time (1997) HELLO READER! MATH
Time to... (1989) (typical day in a child's life)
Game Time! (2000) (time and soccer) (7-9 years)MATHSTART

# Children’s Books that contain Mathematical Concepts Preschool - Grade 2 ( 3 to 7 or 8 years) 

## Time (continued):

Murphy, Stuart J., et. al
Murphy, Stuart J., et. al
Provensen, Alice \& Martin
Roennfeldt, Robert
Singer, Marilyn; Lessac, Frane
Slater, Teddy

Andrew, Moira
Brett, Jan
Glass, Julie; Walz, Richard
Kaye, Marilyn; Bowers, Tim
Keenan, Sheila
Kopp, Jaine
Hopkins, Lee Bennett
Morrissey, Dean
Murphy, Stuart J. et. al
Murphy, Stuart J. et. al
Murphy, Stuart J. et. al
Scieszka, Jon; Smith, Lane
Dr. Seuss
Wright, Alexandra; Word, Reagan
Anno, Mitsumasa
Schecter, Deborah

Get up and Go! (1996) (time lines)(6-8 years) MATHSTART
Pepper's Journal: A Kitten's First Year (2000) (calendar concepts) (6-8 years)

## MATHSTART

A Year at Maple Hill Farm (2001)
A Day on the Avenue (1984) (time of day)
Nine O'Clock Lullaby (1993) (time zones around the world)
Just a Minute (1996) (how long is a minute )HELLO READER! MATH

## Other:

One in a Million (poetry about math concepts)
Berlioz the Bear (1996)
The Fly on the Ceiling: A Math Myth (1998)
Day with No Math (1982) (what would the world be like with no math?)
More or Less a Mess (1997) (sorting, patterns)
Frog Math: Predict, Ponder, Play (1999) (math and writing activities)
Marvelous Math: A Book of Poems (1997)
Ship of Dreams (1994) (mathematical literacy)
A Pair of Socks (1996) (pairs, patterns) (3-6 years) MATHSTART
Let's Fly a Kite (2000)(cooperation) (6-8 years)MATHSTART
The Greatest Gymnast of All (1998) (opposites) MATHSTART
Math Curse (1995) (math all around us)
There's No Place Like Space (1999)
Alice in Pastaland: A Math Adventure (1997)
Anno's Math Games (1997)
Mother Goose Math (2003)

## Grades 2/3-6/7 (8-12 years old)

## Fractions:

Greenberg, Dan

Crawford, Chris
Johnston, Sue
Neuschwander, Cindy; Geehan, Wayne
Neuschwander, Cindy
Read, MacDonald
Scholastic Disovery Box

Conley, Kevin et. al
Verheyden-Hilliard, Mary Ellen et al.

Dahl, Roald
MacDonald, George; Sendak, Maurice Norton, Mary; Krush, Beth \& Joe

Funny \& Fabulous Fraction Stories (1999)

## Geometry \& Shapes:

Tangram Puzzles: 500 Tricky Shapes to Confound \& Astound (2002)
(Includes deluxe wood tangrams)
Fun with Tangrams (1977)
Sir Cumference and the Dragon of Pi: A Math Adventure (1999)
Sir Cumference and the Great Knight of Angleland (2001)
Tangrams Three Hundred and Thirty Puzzles (1980)
Tangrams: Scholastic Discovery Box (1997)

## Mathematicians:

Benjamin Banneker Scientist and Mathematician (1989)
Mathematician and Computer Scientist, Caryn Navy (1988)

## Measurement \& Size:

Esio Trot (1999)
The Light Princess (1992)
The Borrowers (1989)
Money:
Guilio, Maestro

# Children's Books that contain Mathematical Concepts Grades 2/3 - 6/7 (8-12 years old) 

## Probability, Statistics, \& Data Analysis:

Bruce, Colin<br>Cushman, Jean; Weston, Martha<br>Lambert, David<br>Morgan, Rowland<br>Nagda, Ann; Bickel, Cindy<br>Rockwell, Thomas

Conned Again, Watson! Cautionary Tales of Logic, Math, and Probability (2002)
(probability and game theory)
Do You Wanna Bet? (1991) (probability situations)
Dinosaur Data Book (1990) (statistics)
Fact Attack: Nutty Numbers (1998) (ecological statistics)
Tiger Math: Learning to Graph from a Baby Tiger (2002) (graphing)
How to Get Fabulously Rich (1991) (probability, lottery)

## Problem Solving:

Sachar, Louis
Tang, Greg; Briggs, Harry
Tang, Greg; Briggs, Harry
Tang, Greg; Paprocki, Greg
Tumanov, Vladimir
More Sideways Arithmetic from Wayside School:
More than 50 Brain Teasing Math Puzzles (1994) (58 zany problems)
The Grapes of Math (Mind Stretching Math Riddles) (2001)
(patterns, combinations, riddles, rhymes, probability)
Math for All Seasons (2002)
Math-Terpieces: The Art of Problem Solving (2003)
Jayden's Rescue (2002) (fantasy novel; problem solving)
Time:
Babbitt, Natalie
Bosse, Malcolm
Handy, Libby; Newnham, Jack
Juster, Norton; Feiffer, Jules

## Bantam Books

Bendick, Jeanne
Briggs, James
Eager, Edward; Bodecker, N.
Enzensberger, Hans Magnus et. al
Glasthal, Jacqueline
Greenberg, Dan
Kaye, Peggy
Kellogg, Steven
L'Engle, Madeleine
Pallotta, Jerry ; Bolster, Rob
Pappas, Theoni
Pappas, Theoni
Pappas, Theoni
Poskitt, Kjartan
Schwartz, David; Motts, Marissa
Schwartz, David; Meisel, Paul
Schmandt-Besserat, Denise \& Hayes, M.
Tahan, Malba
Twain, Mark; Fishkin, Shelly
Walter, Marion

## Children's Books that contain Mathematical ConceptS

## Young Adult (12 years and up)

Isdell, Wendy<br>Stein, Sherman<br>Swift, Jonathon; Damrosch, Leo

A Gebra Named Al (1993) (Algebra)
How the Other Half Thinks: Adventures in Mathematical Reasoning (2001)
(discoveries in advanced mathematics)
Gullivers Travels (reprint 1999) (ratio, proportion, measurement)

## Parents and Teachers

| Barchers, Suzanne; Rauen, P.; Frohardt, D.Storybook Stew: Cooking with Books Kids Love (1997) (cooking) <br> (This book lists about 40 kids' books featuring food as a main story element) |  |
| :--- | :--- |
| Burns, Marilyn | Math and Literature K-3 (1993) |
| Hoping Egan, Lorraine | 25 Super Cool Math Board Games: Easy to Play Reproducible Games that <br> Teach Essential Math Skils (1999) |
| Kolakowski, Jane | Linking Math with Literature:Grades K-4 (1992) |

Whitin, David; Wilde, Sandra
Linking Math with Literature:Grades K-4 (1992)
Read Any Good Math Lately?: Children's Books for Mathematical Learning, K-6 (1992)

Remember, book titles with a computer mouse next to them have an accompanying Web activity for teachers and/or parents. Visit www.math.youngzones.org/literature.html to link onto these Web pages and download the lessons.

Please note: There are other children's books that have math woven into the stories, but are not listed in this guide. Ask your local librarian for assistance in finding more books that integrate math and literature. Or, visit www.amazon.com or www.bn.com (Barnes and Noble) to search for other titles.

Sources: www.amazon.com; www.bn.com (Barnes and Noble); www. math.youngzones.org/literature.html; and www.library.ucf.edu/CMC/subject/math.htm

