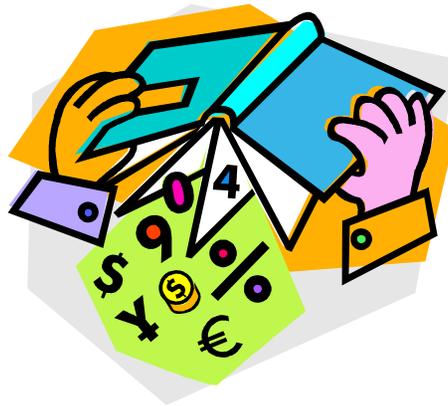


Miami-Dade County Public Schools

Success Using Mathematics Literature Connections in the Classroom



Division of Mathematics and Science Education

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Acknowledgements

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Rosanne Phillips

Sharon Robinson

Sandra Van Cleef

Under the Supervision of Mrs. Michèle S. Weiner,
District Mathematics Supervisor,
Division of Mathematics and Science Education

Success Using Mathematics Literature Connections in the Classroom

Purpose of the *Mathematics Literature Connections in the Classroom*

The Division of Mathematics and Science Education responded to the request of administrators and teachers in the field to create a Mathematics Literature Guide to serve as a resource for teachers. At a time when the demonstration of academic achievement is imperative to a school's success, the need for proven instructional strategies increases. One such strategy is the alignment of subject areas. The alignment of instruction across the curriculum is a critical tool for students as well as teachers. The integration of subject areas reinforces the students' development of content-based concepts, as well as addressing the issue of time management for teachers. The integration of subject matter is greatly advanced through the inclusion of literature supplements into individual content areas. Literature provides a way for children to make mathematics learning much more personal. Research has shown that children assimilate new information best when it has meaning and usefulness for them. Literature is a way to give math meaning.

The National Council of Teachers of Mathematics has reported that reading, writing, discussing, representing, and listening to mathematics are essential to students' comprehension of mathematical concepts. Using literature as a springboard to spark student interest in mathematical concepts:

- engages them in authentic, "real world" experiences in which people use math for real purposes;
- teaches problem solving skills;
- offers opportunities for students to think and to reason;
- gives mathematics meaning.

Description of the *Mathematics Literature Connections in the Classroom*

This literature guide matrix contains suggested titles of books aligned by strand and concept to the Florida Sunshine State Standards to better prepare students in the curriculum area of mathematics. The literature guide was created to assist teachers in the development of mathematical concepts via the use of literature as a bridge. A majority of the titles listed in the literature guide have been implemented in professional development provided

by teachers and curriculum support specialists. Additionally, ISBN numbers have been provided within the literature guide matrix, to aide teachers in easily locating books in stores, or to assist when exploring websites, (such as <http://www.amazon.com>, or other online retailers) which provide editorial reviews, reading level preference, and other books focusing on similar concepts.

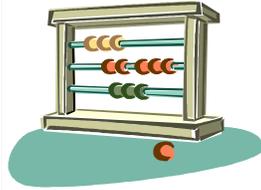
Suggestions for *Success Using Mathematics Literature Connection in the Classroom Effectively*

Some of the benefits of using the identified literature connections are listed below:

- Class discussion of the literature piece provides an informal means of identifying students' prior knowledge.
- Students' reading/language art skills are further developed and enhanced.
- Students' awareness of mathematics topics through indirect mathematics instruction is intensified.
- Students' are more open to content instruction due to an increased interest level (curiosity is heightened by the use of stories and poems).
- Stories and poems are often real world-based.
- Literature can span several age groups depending on desired content goals.
- Students can often articulate or demonstrate comprehension by acting out or re-creating a story.
- Students can better relate to and retain information in story form as opposed to isolated facts.

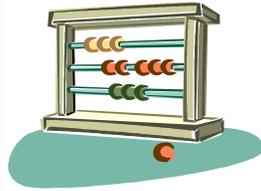
Disclaimer: This is by no means an exhaustive list, but a reference to guide teachers.

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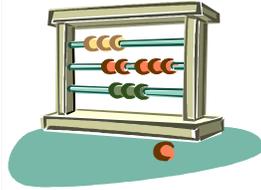
Name of Book	Author and ISBN	Number Sense, Concepts, and Operations							Measurement				Geometry and Spatial Sense			Algebraic Thinking		Data Analysis and Probability				Other				
		Counting	Estimation	Multiplication/Division	Addition/Subtraction	Fractions/Percents/Decimals	Multiples and Factors	Place Value	Proportions/Ratios	Area/Perimeter	Circles/Angles	Length/Capacity/Weight	Money	Time/Calendars	Geometric Shapes	Coordinate Grids	Spatial Sense	Patterns	Attributes	Probability	Data Analysis/Graphing	Combinations	Mean/Median/Mode/Range	Calculators	Problem Solving	Chapter/Trade Books/Other
10 for Dinner	Jo Ellen Boggart ISBN 0-590-73173-4	E																								
100 Days of Cool	Stuart J. Murphy ISBN 0-329-37315-3	E																								
100th Day Worries	Margery Cuyler ISBN 0-689-82979-5	E																								
12 Ways to Get to 11	Eve Miriam ISBN 0-689-80892-5	E			E												E							E		
17 Kings and 42 Elephants	Margaret Mahy ISBN 0-8037-0458-5	E																								
A Cloak for the Dreamer	Aileen Friedman ISBN 0-590-48987-9	EM				EM			EM					EM												
A Collection for Kate	Barbara deRubertis ISBN 1-57565-089-4	EM																							EM	EM
A Day with No Math	Marilyn Kaye ISBN 0-15-301037-1	EM																							EM	
A Dollar for Penny	Julie Glass ISBN 0-679-88973-6	E										E														
A Fair Bear Share	Stuart J. Murphy ISBN 0-329-06735-4	E																								
A Grain of Rice	Helen Clara Pittman ISBN 0-440-41301-X	EMS		EMS													EMS						EMS	EMS	EMS	
A Light in The Attic	Shel Silverstein ISBN 0-06025-673-7																									EMS
A Million Fish More or Less	Patricia C. McKissack ISBN 0-67988-086-0	E		E																						

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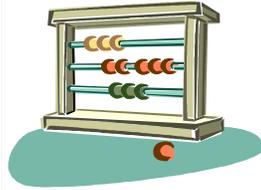
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A Place for Zero	Angeline S. LoPresti ISBN 1-57091-196-7							EM																		
A Quarter from the Tooth Fairy	Caren Holtzman ISBN 0-590-26598-9	E										E														
A Remainder of One	Elinor Pinczes ISBN 0-395-69455-8	E		E																						
Alexander, Who Used to Be Rich Last Sunday	Judith Viorst ISBN 0-689-30602-4	E										E														
Alice in Pasta Land: A Math Adventure	Alexander Wright ISBN 1-57091-151-7					E																				
Amanda Bean's Amazing Dream	Marilyn Burns ISBN 0-590-30012-1			E																						
Among the Odds and Evens	Priscilla Turner ISBN 0-374-30343-6	EMS							EMS																	
Anno's Counting House	Mitsumasa Anno ISBN 0-399-20896-8	EMS																								
Anno's Magic Seeds	Mitsumasa Anno ISBN 0-698-11618-6					EMS																				
Anno's Mysterious Multiplying Jar	Mitsumasa Anno ISBN 0-399-20951-4					EMS																				
Arrow to the Sun	Gerald McDermott ISBN 0-14050211-4													EMS		EMS										
Arthur's Funny Money	Lillian Hoban ISBN 0-06-444048-6											E														
Bad Luck Brad	Barbara deRubertis ISBN 1-57565-089-4																		E							

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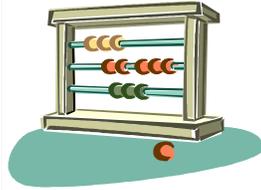
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Bear's New Year Party	Paul P. Lewis ISBN 1-582460-002-7	E											E													
Ben Franklin and the Magic Squares	Frank Murphy ISBN 0-37580-621-0				EM																					
Benny's Pennies	Pat Brisson ISBN 0-440-41016-9											E														
Betcha	Stuart J. Murphy ISBN 0-06-446707-4		E													E										
Bigger, Better, BEST!	Stuart J. Murphy ISBN 0-06-446247-1								E																	
Captain Invincible and the Space Shapes	Stuart J. Murphy ISBN 0-06-446731-7													E		E										
Carrie Measures Up	Linda Williams Abner ISBN 1-57565-100-9								E		E															
Casey at the Bat	Patricia Polacco ISBN 0-399-21884-X			EM		EM						EM		EM											EM	
Chickens on the Move	P. Pollack/M. Belviso ISBN 1-57565-113-0								E																	
Clean Sweep Campers	Lucille Recht Penner ISBN 1-57565-096-7					E																				
Cloudy with a Chance of Meatballs	J. Barrett/R. Barrett ISBN 0-68970-749-5																		EM							
Count on Pablo	Barbara deRubertis ISBN 1-57565-090-8	E			E												E									
Counting on Frank	Rod Clement ISBN 0-8368-0358-2	EM			EM																					
Cut Down to Size at High Noon	Scott Sundbt ISBN 1-57091-168-1																							EM		

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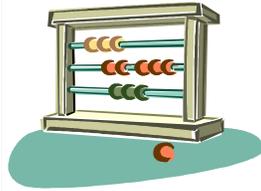
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Dave's Down to Earth Rock Shop	Stuart J. Murphy ISBN 0-06-446729-5	E																								
Deena's Lucky Penny	Barbara deRubertis ISBN 1-57565-091-6										E															
Dinosaur Deals	Stuart J. Murphy ISBN 0-06-446251-X				E																					
Divide and Ride	Stuart J. Murphy ISBN 0-06-446710-4			E																						
Domino Addition	Lynette Long ISBN 0-88106-877-2				E																					
Each Orange Had 8 Slices	Paul Giganti ISBN 0-688-10428-2			E																						
Esio Triot	Roald Dahl ISBN 0-14-036099-9			E																					E	
Even Steven and Odd Todd	Kathryn Cristaldi ISBN 0-590-22715-7				E												E									
Everybody Wins	Sheila Bruce ISBN 1-57565-101-7			E																						
Flat Stanley	Jeff Brown ISBN 0-06-009791-4													EM		EM										EM
Grandfather Tang's Story	Ann Tompert ISBN 0-517-57487-X													EMS		EMS										
Henry's Important Date	Robert Quackenbush ASIN: 0-819-31067-0																			E						
Hershey's Fractions Book	Jerry Pallotta ISBN 0-439-13519-2					E																				
Hershey's Subtraction Book	Jerry Pallotta ISBN 0-439-33779-8					E																				

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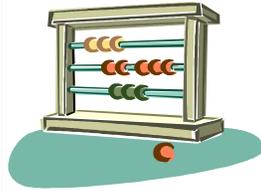
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How Big Is a Foot?	Rolf Myller ISBN 0-440-40495-9										E															
How Many Feet? How Many Tails?	Marilyn Burns ISBN 0-590-67360-2	E															E									
How Many Snails? A Counting Book	Paul Giganti ISBN 0-688-06369-1	E																E								
How Much, How Many, How Heavy, How Long, How Tall is 1,000?	Helen Nolan ISBN 1-55074-164-0		EMS						EMS		EMS	EMS														
How Tall How Short How Far Away	David A. Adler ISBN 0-8234-1375-6										E									E						
If You Made A Million	David Schwartz ISBN 0-688-13634-6											EMS												EMS		
Inch by Inch	Leo Lionni ISBN 0-688-13284-7										E															
Inchworm and a Half	Elinor J. Pinczes ISBN 0-395-82849-X										E															
Insectopedia	Douglas Forian ISBN 0-15201306-7													E		E										
Is a Blue Whale the Biggest Thing There Is?	Robert E. Well ISBN 0-8075-3656-3										E															
It Was Halloween Night	Grace Maccorone ISBN 0-439-30471-7													E		E										E
It's About Time, Max	Kitty Richards ISBN 1-57565-088-6											E														
Jelly Beans for Sale	Bruce McMillan ISBN 0-590-86584-6	E									E															

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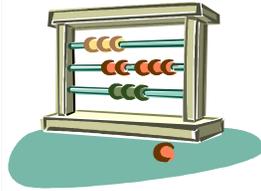
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Jim and the Beanstalk	Raymond Briggs ISBN 0-698-11577-5							EM			EM															
Jumanji	Chris Van Allsburg ISBN 0-590-42233-2																		EMS							
Keep Your Distance	Gail Herman ISBN 1-57565-107-6										E															
Kitten Castle	M. Friedman/E. Weiss ISBN 1-57565-103-3										E			E		E										
Lemonade for Sale	Stuart J. Murphy ISBN 0-06-446715-5																			E						
Less Than Zero	Stuart J. Murphy ISBN 0-06-000126-7	E			E																					
Let's Fly a Kite	Stuart J. Murphy ISBN 0-06-446737-6													E		E										
Lights Out!	Lucille Recht Penner ISBN 1-57565-092-4	E																								
Lulu's Lemonade	Barbara deRubertis ISBN 1-57565-093-2										E															
Make Four Million Dollars by Next Thursday	Stephen Manes ISBN 0-440-41370-2											E														
Marvelous Math	Lee Bennett Hopkins ISBN 0-689-80658-2																									EMS
Math Curse	Jon Scieszka ISBN 0-670-86194-4																							EMS	EMS	EMS
Math Fair Blues	Sue Kassirer ISBN 1-57565-104-1																		E							
Math for All Seasons	Greg Tang ISBN 0-439-44440-3																								EMS	EMS

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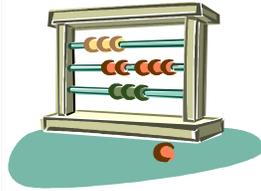
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Me and the Measure of Things	Joan Sweeney ISBN 0-375-81101-X										E															
Mental Math Challenges	Michael Lobosco ISBN 0-439-15108-2																								E	E
Midnight Math	Peter Ledwon ISBN 0-439-34421-2																								E	
Millions to Measure	David Schwartz ISBN 0+439-64974-9	EM	EM								EM															
Moira's Birthday	Robert Munsch ISBN 0-920303-83-8											E	E													
More M&M's Math	Barbara B. McGrath ISBN 0-88106-994-9		E	E																						
Mr. Archimedes Bath	Pamela Allen ISBN 0-207-17285-4										EMS						EMS			EMS						
Mrs. Fitz's Flamingos	Kevin McCloskey ISBN 0-688-10474-6			E								E									E					
My Full Moon is Square	Elinor J. Pinczes ISBN 0-618-15489-2													E		E										
My Rows and Piles of Coins	Tololwa M. Mollel ISBN 0-395-75186-1											E														
No Fair	Caren Holtzman ISBN 0-590-92230-0																		E							
Not Enough Room	Joanne Rocklin ISBN 0-590-39962-4													E		E										
On Beyond a Million	David M. Schwartz ISBN 0-385-32217-8		EMS		EMS																				EMS	
Once Upon a Dime	Nancy Kelly Allen ISBN 1-57091-161-4		EM								EM	EM													EM	

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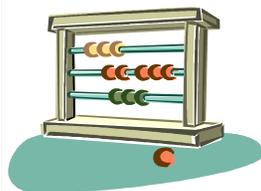
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Seven Blind Mice	Ed Young ISBN 0-698-11895-2																	E								
Shape Up! Fun with Triangles and Other Polygons	David A. Adler ISBN 0-8234-1346-2									E				E		E										
Short Stories from the History of Mathematics	Robert E. Knauff ISBN 0-89278-435-0																								EMS	EMS
Sideways Stories from Wayside School	Louis Sachar ISBN 0-380-73148-7	EM		EM								EM													EM	EM
Sir Cumference and the Dragon of Pi	Cindy Neuschwander ISBN 1-57091-164-9									EMS				EMS		EMS										
Sir Cumference and the First Round Table	Cindy Neuschwander ISBN 1-57091-160-6									EMS				EMS		EMS										
Sir Cumference and the Great Knight of Angleland	Cindy Neuschwander ISBN 1-57091-169-X									EMS				EMS		EMS										
Sir Cumference and the Sword in the Cone	Cindy Neuschwander ISBN 1-57091-601-2													EMS		EMS										
Six Dinner Sid	Inga Moore ISBN 0-671-79613-5			E																					E	
Skittles Riddles Math	Barbara B. McGrath ISBN 1-57091-413-3					E																				
Spaghetti and Meatballs for All	Marilyn Burns ISBN 0-590-94459-2								EM								EM								EM	
Spiders Spin Webs	Yvonne Winer ISBN 0-88106984-6														E											
Stacks of Trouble	Martha F. Brenner ISBN 1-57565-098-3			E																E						
Stay in Line	Teddy Slatter ISBN 0-590-22713-0	E															E									

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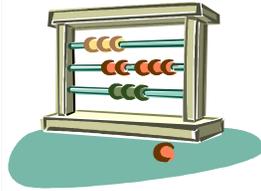
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Super Sand Castle Saturday	Stuart J. Murphy ISBN 0-06-446720-1											E														
Super, Super, Superwords	Bruce McMillan ISBN 0-688-08099-5																									E
Ten Black Dots	Donald Crews ISBN 0-688-13574-9	E																								
Ten Sly Piranhas	William Wise ISBN 0-803-71200-6	E											E													
The 100-Pound Problem	Jennifer Dussling ISBN 1-57565-095-9										E														E	
The 12 Circus Rings	Seymour Chwast ISBN 0-15-201361-X	E																								
The 500 Hats of Bartholomew Cubbins	Dr. Seuss ISBN 0-394-84484-X			E								E	E					E							E	
The Bedspread	Sylvia Fair ISBN 0-688-00877-1													E												
The Biggest Fish	Sheila Keenan ISBN 0-590-26600-4										E															
The Blast Off Kid	Laura Driscoll ISBN 1-57565-130-0		E																							
The Button Box	Margarette Reid ISBN 0-14-055495-5																	E								
The Case of the Missing Birthday Cake	Joanne Rocklin ISBN 0-590-67359-9																E								E	
The Case of the Shrunken Allowance	Joanne Rocklin ISBN 0-590-12006-9				E							E													E	E
The Coin Counting Book	Rozanne L. Williams ISBN 0-439-40478-9											E														

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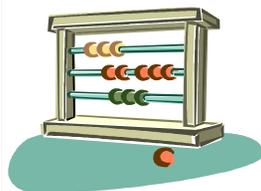
Name of Book	Author and ISBN	Number Sense, Concepts, and Operations							Measurement				Geometry and Spatial Sense			Algebraic Thinking		Data Analysis and Probability				Other				
		Counting	Estimation	Multiplication/Division	Addition/Subtraction	Fractions/Percents/Decimals	Multiples and Factors	Place Value	Proportions/Ratios	Area/Perimeter	Circles/Angles	Length/Capacity/Weight	Money	Time/Calendars	Geometric Shapes	Coordinate Grids	Spatial Sense	Patterns	Attributes	Probability	Data Analysis/Graphing	Combinations	Mean/Median/Mode/Range	Calculators	Problem Solving	Chapter/Trade Books/Other
The Doorbell Rang	Pat Hutchins ISBN 0-688-09234-9			EM																						
The Dragon's Scales	Sarah Albee ISBN 0-679-88381-9										EM															
The Fly on the Ceiling	Julie Glass ISBN 0-679-88607-9														EMS											
The Fraction Family Heads West	Marti Dryk ISBN 0-9658912-0-8					E							E													
The Giraffe That Walked to Paris	Nancy Milton ISBN 0-517-58132-9		E								E									E						
The Grapes of Math	Greg Tang ISBN 0-439-21040-2			EMS																						EMS
The Great Book of Optical Illusions	Gyles Brandreth ASIN 0806962585																								EMS	EMS
The Great Divide	Dayle Ann Dodds ISBN 0-7636-0442-9			E																						
The Greedy Triangle	Marilyn Burns ISBN 0-590-48991-7													EM		EM		EM		EM						
The Hershey's Fraction Book	J. Pallotta/R. Bolster ISBN 0-439-13519-2					E																				
The Hershey's Multiplication Book	Jerry Pallotta ISBN 0-439-25412-4			E																						
The Hundred Penny Box	Sharon Bell Mathis ISBN 0-14-032169-1										EM													EM	EM	
The Icky Bug Counting Book	Jerry Pallotto ISBN 0-88106-496-3	E											E													
The King's Chessboard	David Birch ISBN 0-606-05394-8													EM		EM										

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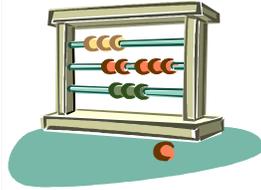
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The King's Commissioners	Aileen Friedman ISBN 0-590-48989-5	EM						EM																		
The Librarian Who Measured the Earth	Kathryn Lasky ISBN 0-316-51526-4													EMS		EMS										EMS
The Long Wait	Annie Cobb ISBN 1-57565-094-0		E														E									
The M&M's Chocolate Candies Counting Books	Barbara B. McGrath ISBN 0-88106-854-3	E	E	E																						
The M&M's Color Pattern Book	Barbara B. McGrath ISBN 1-57091-416-8																E	E								
The Mathematical Magpie	Clifton Fadiman ISBN 0-387-94950-X																							EMS	EMS	
The Moon Quilt	Sunny Warner ISBN 0-618-05583-5													EMS		EMS										
The Name Quilt	Farrar, Strauss, Giroux ISBN 0-374-35484-7													EMS		EMS										
The Napping House	Audrey Wood ISBN 0-152-02632-0												E													
The Patchwork Quilt	Valerie Flournoy ISBN 0-803-70097-0													EMS		EMS										
The Penny Pot	Stuart J. Murphy ISBN 0-06-446717-1							E																		
The Phantom Tollbooth	Norton Juster ISBN 0-394-82037-1										EM															EM
The Promise Quilt	Candice F. Ransom ISBN 0-802-77648-5													EMS		EMS										
The Silly Story of Goldilocks and the Three Squares	Grace Maccarone ISBN 0-590-54344-X													E		E										

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The Sundae Scoop	Stuart J. Murphy ISBN 0-06-446250-1																			E	E				
The Toothpaste Millionaire	Jean Merrill ISBN 0-395-96063-0										E														E
The Village of Round and Square Houses	Ann Grifalcono ISBN 0-316-32862-6								E					E		E									
Three Pigs, One Wolf, Seven Magic Shapes	Grace Maccorone ISBN 0-590-30857													E		E									
Tiger Math: Learning to Graph from a Baby Tiger	Anne Whitehead Nagda ISBN 0-805-06238-3																			E					E
Tightwad Tod	Daphne Skinner ISBN 1-57565-109-2										E														
Too Many Kangaroo Things to Do!	Stuart J. Murphy ISBN 0-06-446712-0			E			E																		
Twizzlers Percentages Book	Jerry Pallotta ISBN 0-439-15430-8					EM																			
Twizzlers Shapes and Patterns	Jerry Pallotta ISBN 0-439-34053-5													EM		EM									
Two of Everything	Lily Toy Hong ISBN 0-8075-8157-7						E					E													
Two Ways to Count to Ten	Ruby Dee ASIN 0027822591	E			E																				E
What Time Is It?	Sheila Keenan ISBN 0-590-12008-5												E												
What's a Pair? What's a Dozen?	Stephen R. Swinburne ISBN 1-56397-871-7	E			E												E								
What's Next Nina?	Sue Kassirer ISBN 1-57565-106-8																EMS								

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Where the Sidewalk Ends	Shel Silverstein ISBN 0-06025-667-2																EMS									EMS
Who Sank the Boat?	Pamela Allen ISBN 0-698-11373-X									E																
Who's Got Spots?	Linda Aber ISBN 1-57565-099-1																			E						
X Marks the Spot	Lucille Recht Penner ISBN 1-57565-111-4														EM					EM						

The School Board of Miami-Dade County, Florida, adheres to a policy of nondiscrimination in employment and educational programs/activities and programs/activities receiving Federal financial assistance from the Department of Education, and strives affirmatively to provide equal opportunity for all as required by:

Title VI of the Civil Rights Act of 1964 - prohibits discrimination on the basis of race, color, religion, or national origin.

Title VII of the Civil Rights Act of 1964, as amended - prohibits discrimination in employment on the basis of race, color, religion, gender, or national origin.

Title IX of the Education Amendments of 1972 - prohibits discrimination on the basis of gender.

Age Discrimination in Employment Act of 1967 (ADEA), as amended - prohibits discrimination on the basis of age with respect to individuals who are at least 40.

The Equal Pay Act of 1963, as amended - prohibits sex discrimination in payment of wages to women and men performing substantially equal work in the same establishment.

Section 504 of the Rehabilitation Act of 1973 - prohibits discrimination against the disabled.

Americans with Disabilities Act of 1990 (ADA) - prohibits discrimination against individuals with disabilities in employment, public service, public accommodations and telecommunications.

The Family and Medical Leave Act of 1993 (FMLA) - requires covered employers to provide up to 12 weeks of unpaid, job-protected leave to "eligible" employees for certain family and medical reasons.

The Pregnancy Discrimination Act of 1978 - prohibits discrimination in employment on the basis of pregnancy, childbirth, or related medical conditions.

Florida Educational Equity Act (FEEA) - prohibits discrimination on the basis of race, gender, national origin, marital status, or handicap against a student or employee.

Florida Civil Rights Act of 1992 - secures for all individuals within the state freedom from discrimination because of race, color, religion, sex, national origin, age, handicap, or marital status.

School Board Rules 66x13- 4A-1.01, 66x13- 4A-1.32, and 66x13- 5D-1.10 - prohibit harassment and/or discrimination against a student or employee on the basis of gender, race, color, religion, ethnic or national origin, political beliefs, marital status, age, sexual orientation, social and family background, linguistic preference, pregnancy, or disability.

Veterans are provided re-employment rights in accordance with P.L. 93-508 (Federal Law) and Section 295.07 (Florida Statutes), which stipulate categorical preferences for employment.

Revised 5/9/03