



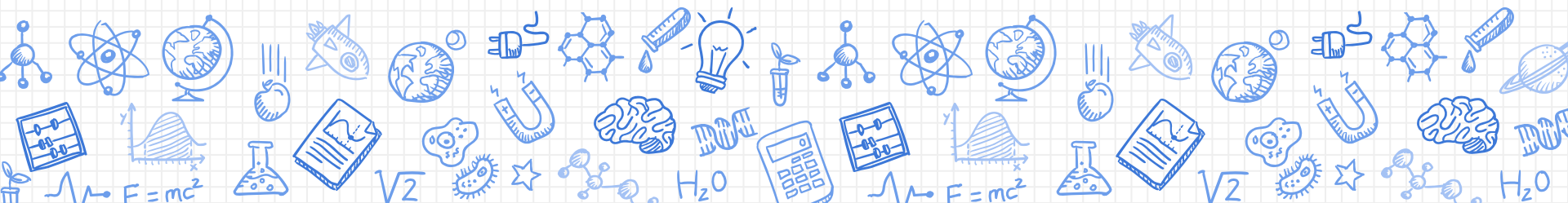
MATH CURRICULUM NIGHT

Bonnie Brae Elementary School
Math and Literacy Night
November 9th, 2023



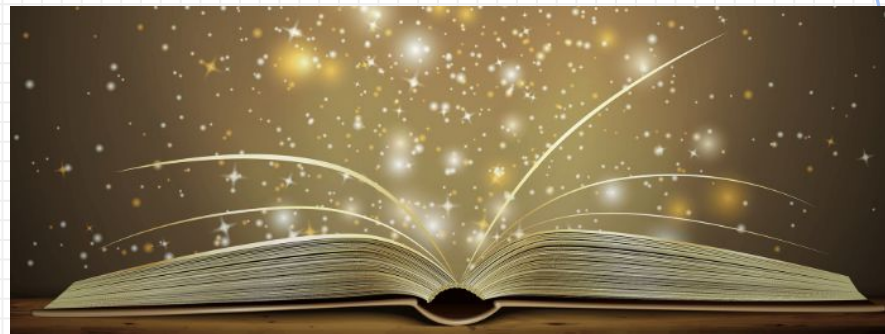


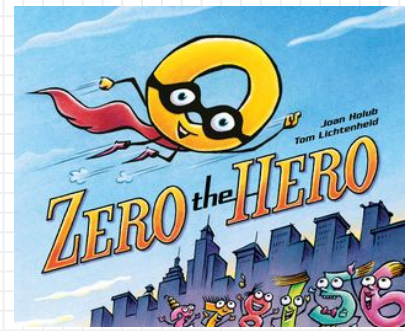
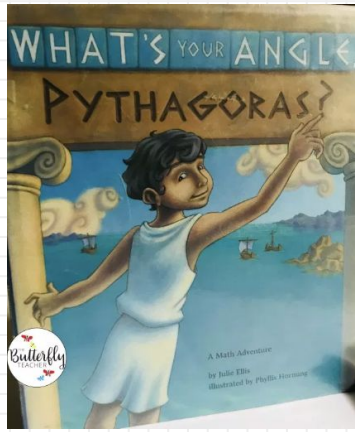
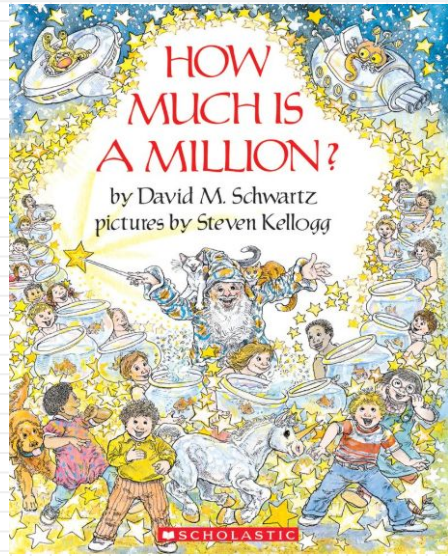
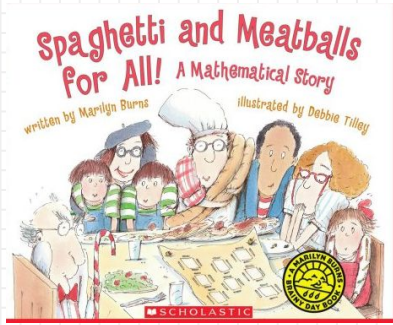
Mathematics Can Be Literature



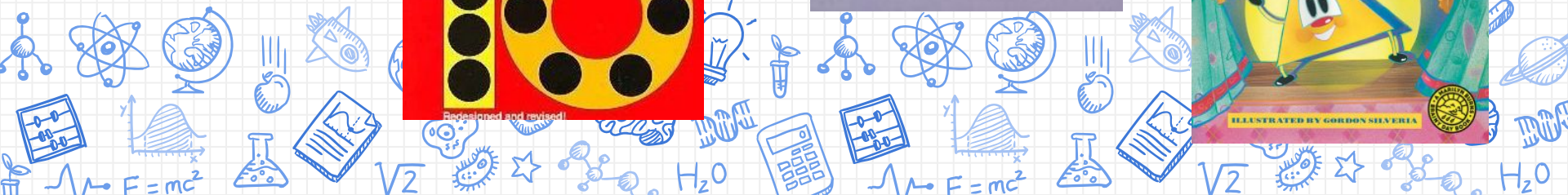
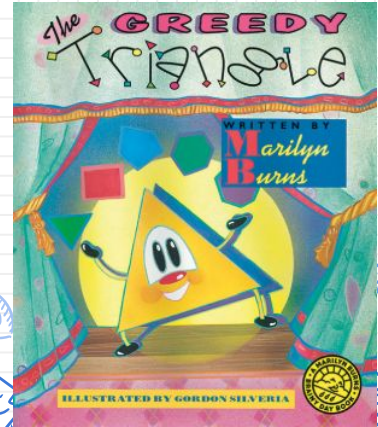
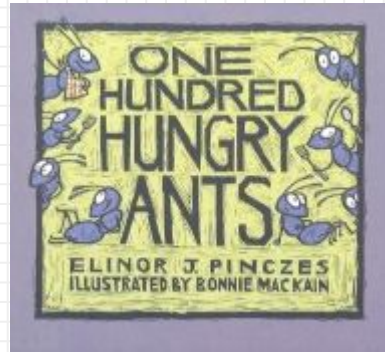
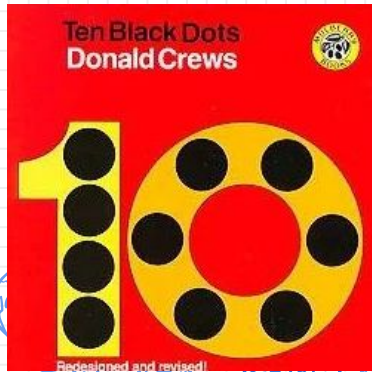
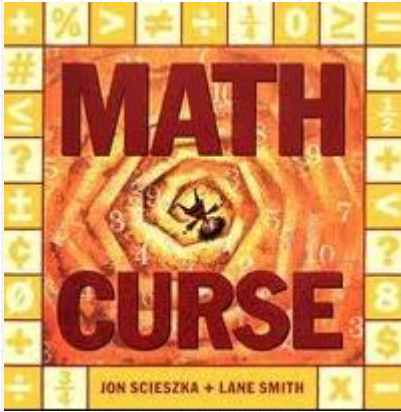
“I do believe something very magical can happen when you read a book.”

-J.K. Rowling

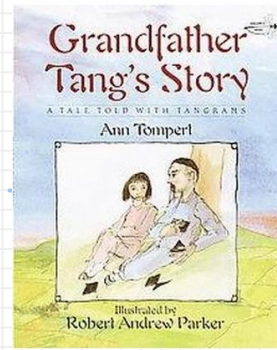




Examples

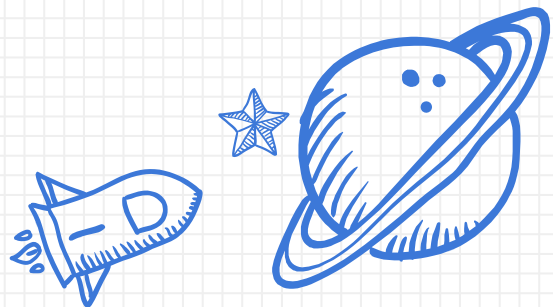


Mathematics and Literature



Story Problems:

- ✘ help children make sense of the world around them
- ✘ can bring context and purpose to mathematics
- ✘ are engaging for students



Mathematics and Play



Games and Activities to Promote Mathematical Thinking at Home

Card Games

- Uno
- Skip-Bo
- War
- Go Fish
- Crazy 8s
- Golf

Helps children:

- Develop early number concepts and counting
- Develop and refine strategies
- Learn to play fairly and work with others



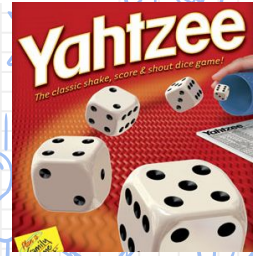
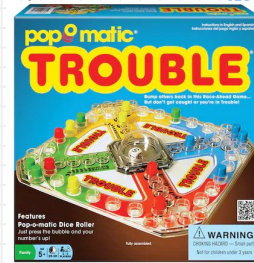
Games and Activities to Promote Mathematical Thinking at Home

Board Games

- Mancala
- Monopoly
- Battleship
- Trouble
- Yahtzee

Helps children:

- Develop number sense and computational skills
- Develop and refine strategies
- Learn to play fairly and work with others



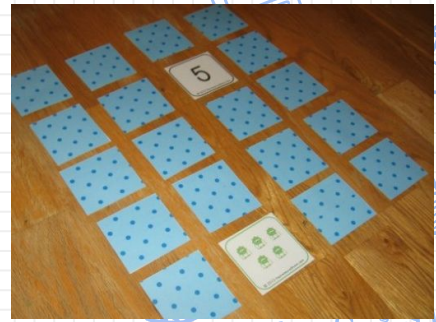
Games and Activities to Promote Mathematical Thinking at Home

Other Games & Activities

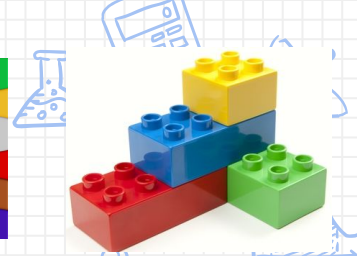
- Memory
- Dominóes
- Simon
- Jenga
- I Spy
- Rubix Cube

Helps children:

- Improve working memory
- Develop spatial reasoning
- Learn to play fairly and work with others



Games and Activities to Promote Mathematical Thinking at Home



Games & Activities

- Jigsaw Puzzles
- Number Puzzles
 - Sudoku,
 - KenKen
- Legos
- Blocks
- Magnatiles

Helps children:

- Develop spatial reasoning
- Develop and refine strategies
- Learn to play fairly and work with others



6		1		2
4		6	2	7
		3	7	8
2		4	9	
	1		2	
	3	8		5
9		8	4	
	4	3	2	9
2		7		4

Mathematics and Play

These are just a few examples. There are many games and activities that involve mathematical thinking and promote:

- ✗ mathematical thinking,
- ✗ talking about mathematics,
- ✗ reasoning, testing conjectures, and
- ✗ developing strategy.



Mathematics and Play

“Mathematical experiences for very young children should build largely upon their play and the natural relationships between learning and life in their daily activities, interests, and questions...”

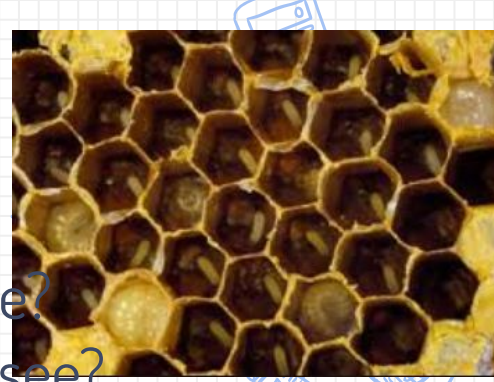


Mathematics All Around Us



Mathematics in Nature

- ✗ What do you notice?
- ✗ What do you wonder?
- ✗ How many do you see?
- ✗ What shapes do you see?
- ✗ What patterns do you see?



Mathematics in Nature

- ✘ What do you notice?
- ✘ What do you wonder?
- ✘ How many do you see?
- ✘ What shapes do you see?
- ✘ What patterns do you see?



Mathematics & Sports

Soccer

✘ What math do you notice in sports?



Mathematics & Sports

- ✗ What math do you notice in sports?



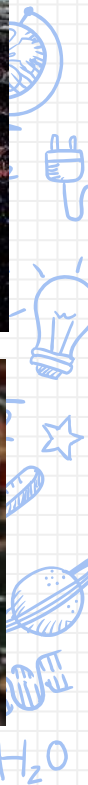
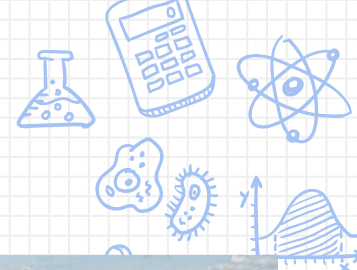
Football



Mathematics & Sports

Baseball

✘ What math do you notice in sports?

A scoreboard at Nationals Park during a game between the San Francisco Giants and the Washington Nationals. The scoreboard displays the following information:

NATIONALS PARK

GIANTS

33 BARNHART	CF	15	WADSWAN	RF
16 BASTIENNA	RF	24	24 JENNINGS	LF
2 BROWN	RF	11	25 JENNINGS	LF
1 POLINA	CF	44	26 DUNE	LF
46 BARNHART	LF	34	27 DUNE	RF
28 GIBSON	LF	33	28 HARSEN	CF
5 WISSE	3B	7	29 BARD	C
7 BARKER	2B	4	30 VERLINDA	2B
50 LINDEMAN	P			

NATIONALS

15 WADSWAN	RF	15	WADSWAN	RF
24 JENNINGS	LF	24	JENNINGS	LF
11 JENNINGS	LF	11	JENNINGS	LF
44 DUNE	LF	44	DUNE	LF
34 DUNE	RF	34	DUNE	RF
33 HARSEN	CF	33	HARSEN	CF
7 BARD	C	7	BARD	C
4 VERLINDA	2B	4	VERLINDA	2B

Scoreboard Summary:

AVG	HR	RBI	RUNS	SCORING	8:34	PITCH SPEED	MPH	ERA	S	S	TOTAL
0.276	0	0	0	0		90	90	4.50	0	0	0
0.276	0	1	1	0		90	90	4.50	0	0	1



Player Highlight: FRED LEWIS (NATIONALS) - 2nd FLYOUT TO LEFT, 1st SINGLE, RUN

Logos: The Washington Post, PNC Official Bank of the Nationals, Coca-Cola

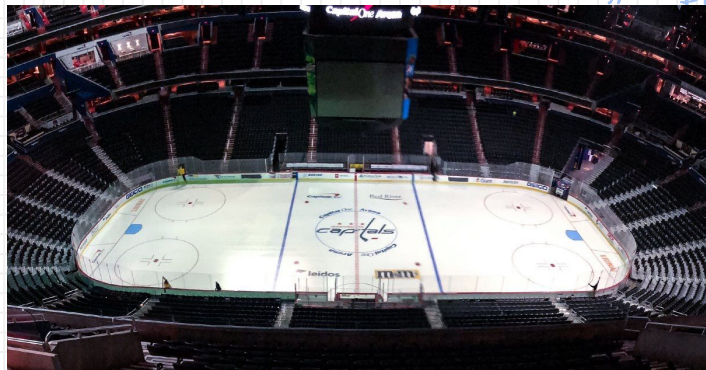
Mathematics & Sports

✘ What math do you notice in sports?

NHL - Yesterday Final

	1	-	2		
Pittsburgh Penguins (6 - 5 - 3)				Washington Capitals (7 - 4 - 3)	
Team	1	2	3	T	
Pittsburgh Penguins	1	0	0	1	
Washington Capitals	0	1	1	2	

Hockey



Mathematics & Food

Cooking & Baking

- ✘ What math do you notice in cooking and baking?



