

The Role of Math Games

By Mary Ann Warrington *Math Specialist*

Stuart Hall for Boys

San Francisco, California

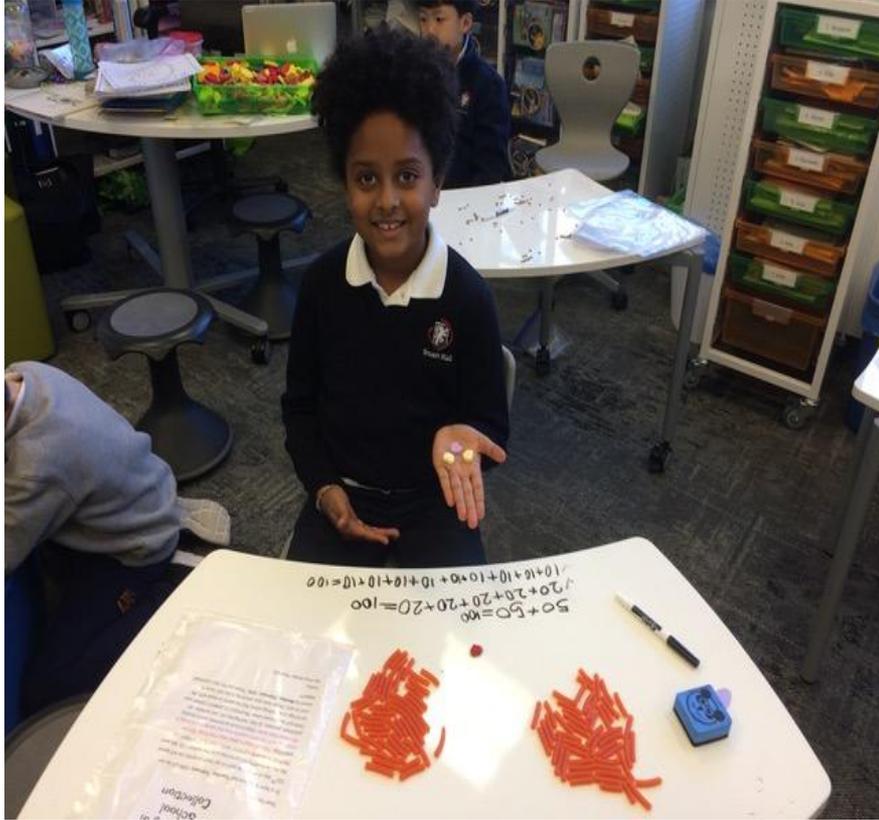
Stuart Hall for Boys in San Francisco



Our Campus

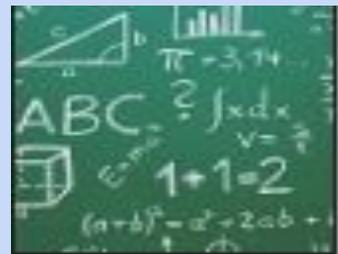


Role of Games in Math Instruction



Why play games?

- Games are a fun and motivating way to explore number concepts such as one to one correspondence, counting sequence, and computation strategies.



Games Encourage Strategic Mathematical Thinking



The Role of Math Games

When games are played repeatedly, they support student development of computational fluency.



Games provide opportunities for flexible instruction

Games can free up teachers to observe and assess understanding, or work with smaller groups of students.



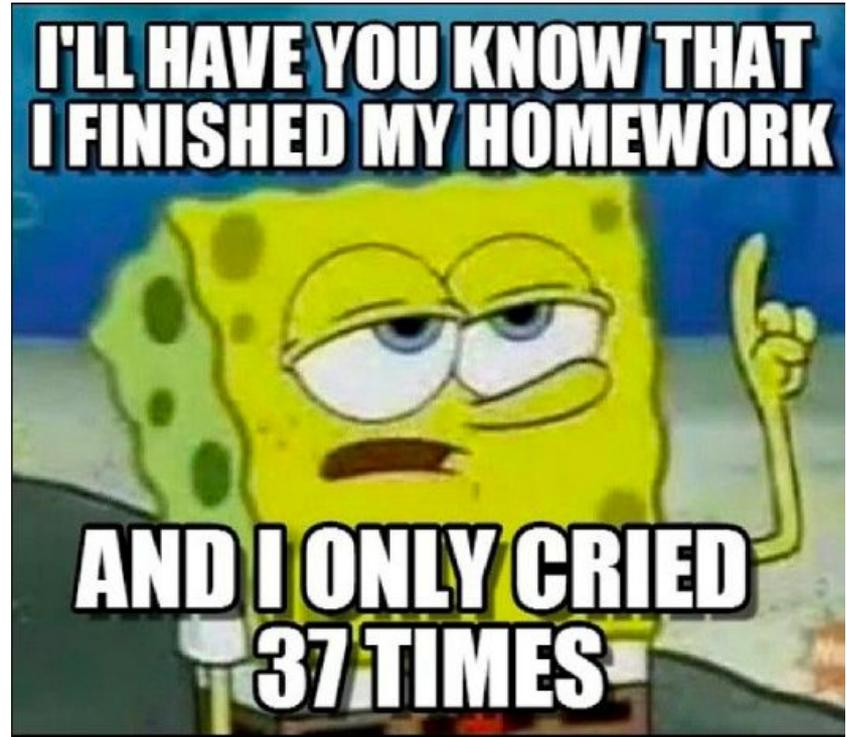
Games can support a school to home connection

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"To show you how well I understand fractions,
I only did half of my homework."



Ways to use games to enhance instruction

- Main lesson to provide practice on a specific skill or concept
- Games can be used as an extension to provide extra challenge or remediation
- Games can be as centers to develop fluency with facts
- Games can be used to differentiate classroom activities

Games as a Warm up to a Lesson

Guess my Number (Digit Place)

DIGIT PLACE
(A SECRET NUMBER QUEST)
RECORDING SHEET

Reproducible 17

Copy the recording sheet as needed to play the game (one recording sheet per game).

Guess	Digit	Place

Four Strikes and You're Out !

Strike 3!

**You're not
outta here?**



Digit Place

Players pick a 2 or 3 digit number with no two digits the same. Partners take turns guessing each other's numbers. Each time a guess is made, the other person records how many digits are correct and how many digits are in the correct place. Using a chart to record the info is helpful.

The player who determines the correct number in the fewest "guesses" wins the game.

Digit Place Recording

Guess	Digit	Place

Four Strikes and You're Out

0, 1, 2, 3, 4, 5, 6, 7, 8, 9

Students try to fill in the blanks of an equation before getting 4 strikes. Each time a digit is guessed, it is either put into the equation, or the team gets a strike.

Four Strikes and You're Out!

0, 1, 2, 3, 4, 5, 6, 7, 8, 9

$$_ + _ = _ _$$

$$_ _ + _ _ = _ _$$

And now a chance to play a few math games....



Select a game and play with a partner



Math Games

Using games to assess understanding



Using games to enhance enjoyment of math

