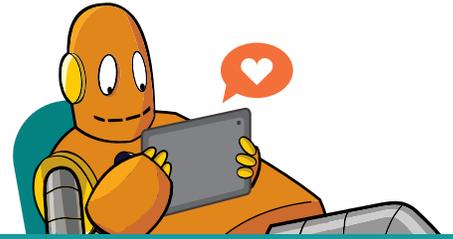


BrainPOP at Home



Make math real and FUN this summer! Discover, play, and learn with your family.

Some children are math mavens, excited by the challenge of a mathematical puzzle. Others are more reluctant, lacking confidence in their math ability. A child's mindset about math, or any school subject, can greatly affect achievement. Studies find that the more positive and confident a child feels, the greater success she or he will have. Luckily, summertime offers a perfect opportunity for children to discover that math is REAL and FUN. Following are ideas and tips for making real-life connections and experiencing math in action.



MAKE MATH REAL

"When am I ever going to use this?" No doubt your child has asked you this question... many times! This summer find answers to the question by exploring BrainPOP's [Practical Math](#) unit. Or, check out BrainPOP Jr. movies that focus on math kids use every day, such as [Time](#) and [Money](#). Explore one or two topics per week throughout the summer. With your child, watch the movie to see how the always whimsical Moby applies the skill to real life, from estimating a budget and splitting a bill to using statistics for purchasing decisions, and much more!

After watching the movie, take a deep dive into the topic by playing a BrainPOP a game, taking a quiz, and even making your own BrainPOP-style movie about the topic!



THE NATURE OF MATH

Nature is bursting with math and summer is a great time to discover its many forms! You may want to watch the BrainPOP movie [Fibonacci Sequence](#) to find out how and why this sequence shows up in nature. Then take a hike, stopping along the way to notice the many epic examples of math in all its natural glory. Here are some things you may see. Keep a list or take pictures along the way:

- Radial symmetry in butterflies, leaves, and spiderwebs.
- Fibonacci sequence in flowers, such as a sunflower.
- Shape of honeycombs (according to mathematicians, a honeycomb's shape offers the perfect balance of strength and space required for honey storage).
- Patterns in rainbows, markings on animals' coats, ripples in a pond.



GET YOUR MATH ON WITH GAMEUP!

Put your math smarts to the test by playing BrainPOP and BrainPOP Jr. math games throughout the summer. Here are some of our faves:

BrainPOP

Game Over Gopher

Graph values on a coordinate plane.

Gate

Use multiplication and the power of place value to defeat monsters.

Lure of the Labyrinth: Employee Cafeteria

Use math to figure out what the hungry monsters want to eat.

Ratio Rumble

Make powerful potions using ratios.

Satisfaction

Wrack your brain against complex.

Multiplication Blocks and Addition Blocks

Test your basic operations speed and skill.

BrainPOP Jr.

Battleship Numberline

Estimate ships position on a number line.

Jelly Bean

Use jellybeans to practice estimation and solve equations.

Monster School Bus

Pick up as many monsters in few trips as possible.

Pearl Diver

Grab pearls by diving at the proper place on a number line.

Sortify: Basic Adding

Add up numbers to reach the bin's sum.

Teachley Add & Subtract

Use math strategies to help the addimals and subtractimals save their world.

Treefrog Treasure

Practice fractions and number line concepts.

Wuzzit Trouble Jr.

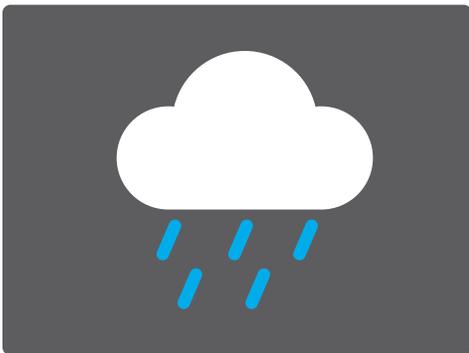
Use your problem-solving smarts to set free the Wuzzits.



FAMILY TRIP

If your family is taking a trip this summer, use this opportunity to practice important math skills. Before heading out, have your child use an atlas to calculate how many miles you'll drive to your destination. Figuring out your car's fuel efficiency is another real-life math challenge. To solve this problem, your child has to use a variety of operations: adding the cost to fill the tank over the course of the trip.; dividing miles you drive per gallon of gas; multiplying cost of a fill-up based on miles you plan to drive. After you arrive at your destination, challenge your child to figure out your average speed.

Younger ones can get in on the traveling math fun, too! While on a road trip, challenge them to count everything, from trucks and cars to trees and traffic lights! Continue the counting fun when you reach your destination by watching the BrainPOP Jr. movie [Counting On](#).



RAINY DAY GAME PLAY

What's better than a board game on a rainy summer day? Not only are games just plain fun but many of the most popular ones sharpen kids' math smarts without them even noticing! Here's a examples of classic games and related math concepts. Before you play, check out a BrainPOP or BrainPOP Jr. movie about the math topic.

Basic Operation

Games

Monopoly, Life, Payday

BrainPOP

[Numbers and Operations](#) unit.

BrainPOP Jr.

[Addition and Subtraction](#) and [Multiplication and Division](#) units; [Choosing an Operation](#)

Patterns & Geometry

Games

Sequence, Blokus, Geoshapes, Qwirkle

BrainPOP:

[Geometry and Measurement](#) unit

BrainPOP Jr.

[Geometry](#)

Coordinate Graphing

Game

Battleship

BrainPOP

[Coordinate Plane](#)

BrainPOP Jr.

[Line Graphs](#)

Logic & Strategy

Games:

Clue, Stratego, Sudoku, Chess, Checkers, Backgammon, Othello, Mancala, Connect 4

BrainPOP

[Critical Reasoning](#)

Design and construct your own board game! Invite your friends over to play!



CALLING ALL COOKS!

From measuring to timing, math is a main ingredient for cooking! Designate one night per week this summer when you and your child make a recipe together. Let your child do the math heavy lifting. For example, if you are doubling a recipe, encourage your child to figure out which operation to use and calculate the amount you need of each ingredient.

Brush up on measuring skills by exploring the BrainPOP topics [Customary Units](#); [Metric Units](#); and [Measuring Matter](#). For younger kids, review these BrainPOP Jr. topics: [Cups, Pints, Quarts, Gallons](#); [Grams and Kilograms](#); [Ounces, Pounds, and Tons](#); and [Temperature](#).



SHOP TIL YOU DROP!

Ok, maybe not til you drop! But seriously, shopping is a great way for your child to brush up on real-life math skills. Whether at the supermarket comparing prices of apples or calculating the percentage off those cool new kicks, challenge your child to do the calculating for you. Engage your child with prompts such as, "If the grapes are \$2.49 per pound and we buy 6 ounces, how much will they cost?" or "If the jeans are 10% off the price, how much do they cost?"

BATTER UP!

Take your kid out to a ballgame this summer to see math in action. From speed of a pitch to batting averages, point out that experts use this data to evaluate players performance which affect their rankings. Bring math to life by using a scorecard during the game. After the game, keep the fun and learning going by looking up favorite players and calculating their statistics.

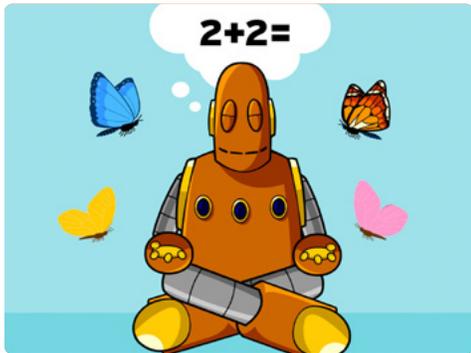
Still got baseball on the brain? Watch BrainPOP's [Baseball](#) movie or BrainPOP Jr.'s [Jackie Robinson](#) movie. Your child can also make a [BrainPOP-style](#) movie about baseball to share with family and friends.



LAUNDRY SORT

Bring some math fun to the ho-hum chore of laundry. Here are some ideas:

- After pairing up socks, skip count by two to figure out the total number of socks in the laundry.
- Organize laundry by family member then practice comparing numbers by calculating who has the most and least. You can also do this by categorizing by color to see what colors your family wears most and least.
- Point out symmetry while folding laundry. When folding a shirt, for example, show how the sleeves line up together and review that the fold is called a line of symmetry.
- Practice time elapse skills by having your child take note of the time you turn on the washer or dryer. Tell how long the laundry will take and have your child calculate what time it will be ready. When the cycle is done, she/he can figure out if the calculations were correct.



BOOSTING MATH CONFIDENCE

A simple way to boost your child's math confidence is how you talk about math. Here are some simple DOs & DON'Ts:

- DO point out the many everyday ways we use math (e.g., measuring for recipes, paying a bill, calculating tip).
- DO activities together that require using math, such as cooking or shopping.
- DON'T talk about math as easy or hard.
- DON'T say "I don't like math" or "I've always been bad in math." (They may take this to mean that math skills are inheritable)