



**FAIRFIELD  
PUBLIC SCHOOLS**



## Summer Math in Fairfield

### *Keep Your Math Skills Shining All Summer Long*

Our district provides [math packets for each grade level on our website](#). Students in Middle School and High School are expected to do their packet for the class they are entering. Teachers will collect the packet when you return to school.

**Keep your math skills shining this summer with mathematical thinking and family fun!** When we think of math, there are so many additional ways to engage students in math: math talks, mathematical thinking, games, and activities. Help build strong, confident mathematicians!

#### **Ways to Keep Math Skills Shining for Elementary School Students**

- **Math Activities at Home:** [Math At Home from Math Learning Center](#) has activities PK-5 that are aligned to our curriculum and our math resource, Bridges in Mathematics.
- **Engage in Life Math:** Have them help organize laundry, make pairs of socks, and count by 2s. Measure items around the house, including cooking, talking about how to double or half a recipe or cut a bananas in halves. At the beach or outside, collect and organize items by 5's and 10's, add one more, subtract one. When it rains, measure the rain using a rain catcher or a pitcher with a ruler, measured in centimeters, millimeters, and inches.
- **Develop Geometric Reasoning:** Kanoodle, Tangrams, Building Blocks, Legos, Origami. Go on a shape scavenger hunt, and see how many shapes you can find.
- **Playing Games Together:** Board games are great for number sense and strategy. Card games teach students about greater than and less than, adding and subtracting, ordering, and organizing. Have your child be the "banker" or score keeper. Make them in charge of moving the pieces and counting the dice.
  - Chutes and Ladders, Sorry, Uno, Checkers, Chess, Hi Ho Cherry O!, Shut the Box, Qwirkle, Cribbage, Mancala, Monopoly (and Monopoly Jr), Risk, Catan (and Catan Jr.), Dominoes, Ken Ken
- **Reading:** Read books with math in them! Check out the Fairfield Library and see what they have!
- **Telling Time:** Work with your child on the clock, tell time on an analog clock, and use digital clocks and timers to find out how long something takes (how long to play, clean up, how long until a playdate, or going to the beach). Giving students the ability to understand the length of time works on their subtraction skills and also their understanding of time duration.



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- **Money and Numbers:** Go to the bank and get coin roll wrappers. Have your child collect coins, sort them by value, and count how much they have. This works on their addition and multiplication of 1's, 5's, 10's, and 25's
- **Mental Math Fluency:** If your child knows their math facts, work on fluency and automaticity (how fast they remember). Flash cards are great for this! Sort into "knows" and "maybe knows". Then work on the ones that they are not as confident with.

#### **Ways to Keep Math Skills Shining for Middle School and High School students**

- **Playing Games Together:** Games and Activities: Board games, Card Games, and Math Puzzles are a great way for middle and high school students to develop mathematical thinking, problem-solving, and strategy. Playing games and having them add their totals without a calculator (pencil and paper is ok!)
  - Uno, Chess, Risk, Monopoly, Catan, Ticket to Ride, Qwirkle, Rummikub, Cribbage, Mancala, Phase 10, Farkle, Mastermind, Yahtzee, Clue, Ken Ken, Sudoku, Blackjack, Backgammon
  - Kanoodle, Tangrams, Building Blocks, Legos, Origami
- **Mental Math Fluency:** Fact fluency is not just for elementary students. We want all of our students to feel comfortable and confident in their mathematical fact knowledge and their number sense. Using games like those above helps with their mathematical thinking. Having students help with cooking and using recipes where they have to double, triple, half, or quarter a recipe is a life skill. Students should be working on doing this without a calculator (pencil and paper is ok!).



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### Resources and other Ideas!

- **FPS Math Packets:**
  - [Math Packets By Grade Level and Course](#)
- **Day Trips:**
  - Visit the [National Museum of Mathematics \(MoMath\) in NYC](#)
  - The Mathematica exhibit in the [NY Hall of Science in Queens](#)
- **Family Math**
  - [Math At Home from Math Learning Center](#) (Grade PK-5)
  - [Family Math Activities \(Ages Birth - 8\)](#): Check out their Family Activities Cooking, Daily Routines, Reading Together, Games and Play
  - [Outdoor Math Activities](#)
  - [Origami](#), [more advanced Origami](#)
- **Card Games:**
  - [Card Games for Early Math](#)
  - [Card Games](#), [More Card games!](#)
- **Game Night!**
  - [Math Games for Family Game Night](#),
  - [Big list of Board Games](#),
  - [Games and Puzzles from the National Museum of Mathematics \(MoMath\)](#)
- **Digital Math:**
  - Students currently in K-5 have access to [MathFactLab](#)
  - Students currently in grades 3-9 have access to [IXL](#)
  - Students entering grades 9-12 have access to [Delta Math](#)



Student Name \_\_\_\_\_

Student School \_\_\_\_\_

Teacher \_\_\_\_\_

Grade \_\_\_\_\_

**Color in an object for each day you do an activity.**

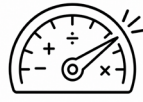
**Games**

**Life Math**

**Fluency**

**Paper/Pencil**

**More Math!**



**Please return to your teacher by Friday, September 4th.**