



Dear Parents and Guardians,

There are many options for you to consider when planning math/STEM activities for your child this summer. We are including:







- Choice boards (K-4) with varying grade level appropriate activities to keep their skills fresh.
- Quantile Summer Math Challenge- *Online Registration Required Here:*
<https://hub.lexile.com/summer-math-challenge>
- The State of Connecticut Summer Math Passport Program (K-6)
A non-tech program that provides opportunities for families to do math together at places like the beach, a playground, hiking, etc.
Scan to the bottom of this website link for needed information:
<https://portal.ct.gov/SDE/Math/Summer-Math-Challenge>
- Math/STEM Summer Activity Programs you can access at the following links:
Bed Time Math Summer of Numbers
<https://bedtimemath.org/what-we-do/summer-of-numbers/>
Tang Math Summer Challenge
<https://tangmath.com/summer>
Science Buddies Summer of STEM
<https://www.sciencebuddies.org/blog/summer-of-stem-1-carnival-science>

Have a Wonderful Summer,






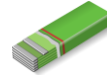
Michele Lathrop and *Liz Dumond*

Math/Science Instructional Coaches


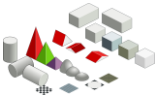










Math Activity Choice Board for Incoming 1st Graders

<p>Shape Hunt! Go for a walk or a drive with a grownup. Look for flat (2D) and solid (3D) shapes. How many can you see?</p> 	<p>5 Group Partners! Roll a die and say what the missing part is to make a total of 5. If you roll 6, roll again. Ex.: If you roll a 1-1 and 4 make 5 Or $1 + 4 = 5$</p>	<p>Make 5! Using 2 different objects, make 5. How many different ways can you make 5?</p> 	<p>Nature Hunt! Go outside and write down how many insects, animals, and flowers you see. Which did you see the most? Which did you see the least?</p>	<p>Counting the 10 Way Count from 11 to 20 the say Ten Way. Ten One Ten Two Ten Three ...</p>
<p>Workout to 100! Do 10 each of the following: jumping jacks, crab walks, toe touches, marching steps, sit-ups, touch your knees, dance steps, jumps, little steps, and BIG steps.</p>	<p>Draw & Add! Pick 2 numbers between 1 and 5 Draw a picture and add the numbers and find the total. Write an addition sentence to match your picture.</p>	<p>Shapes! Draw a map of your bedroom using these shapes: circle, square, rectangle. How many circles, squares, and rectangles did you use to make your map?</p>	<p>Count to 100! Start at 5, 11, and 22 and count to 100. Now try counting backwards from 10.</p> 	<p>Counting Objects! Counting Piles of 10 Make groups of 10 using objects you can find around you.. How many groups of 10 can you make?</p>
<p>Making Your Own Story! Tell someone in your house story problems that go with $3 + 2 = 5$ and $5 - 2 = 3$</p>	<p>Story Time! There are 7 cubes and 2 cylinders. How many shapes are there?</p> 	<p>Make 6! 6 is 5 and _____ 6 is 3 and _____ 6 is 1 and _____ 6 is 2 and _____ 6 is 4 and _____ Create number bonds to match!</p>	<p>Roll the Dice! Roll two dice and add the numbers together. Write the number sentence. Can you write the matching number bond?</p>	<p>Make 8! 4 and _____ is 8 7 and _____ is 8 5 and _____ is 8 2 and _____ is 8 8 and _____ is 8</p>
<p>Count to 100! Count to 100 today! Now can you count by 10's to 100? Can you count backwards from 20?</p> 	<p>Drawing 10 Ones & Some! Draw 10 Ones and Some Ones for the following: 10 ones and 2 ones 10 ones and 6 ones 10 ones and 8 ones What is the total for each?</p>	<p>Make Number Bonds! Draw number bonds to show the missing parts to make 9. 9 is 5 and _____ 9 is 8 and _____ 9 is 3 and _____ 9 is 7 and _____</p>	<p>How Many More to Make 10? Roll a die, say how many more to make 10. Ex.: Roll a 5 and say, 5 needs 5 more to make 10.</p> 	<p>Teen Number Bonds! Make a number bond to show the whole for the following parts: 10 and 5 10 and 1 10 and 7</p>











Math Activities Board for Incoming 2nd Graders

<p align="center">Collection of 20!</p> <p>Find a collection of 20 things in your house (Legos, crayons, blocks, etc.). How many addition and subtraction equations can you create with your collection?</p> <p align="center">$20 - 5 = 15$</p>	<p align="center">Shape Hunt!</p> <p>Go on a shape hunt around your home. How many 2D (rectangles, circles, squares, triangles) shapes can you find? How many 3D shapes (cylinder, sphere, cube)? What other shapes can you find?</p>	<p align="center">Pick A Number!</p> <p>Pick any number between 10 and 120. What is 10 more than your number? What is 10 less? Ask a family member to play along!</p> 	<p align="center">Count by 2s!</p> <p>Walk around a room in your home and count items in the room by 2's. What was the total?</p> <p align="center">2, 4, 6, 8, 10, 12, ...</p>	<p align="center">Counting by 10s and 1s!</p> <p>Put some dimes (10 cents) and pennies (1 cent) in a bag. Grab a handful from the bag. Put your dimes in a line and your pennies in a line. Count by 10s and 1s to find the total amount of cents you grabbed.</p>
<p align="center">Making 10!</p> <p>What are all the ways to make 10? Write down your number sentences. Can you find ten ways to make 10?</p> 	<p align="center">Count Your Hops!</p> <p>Count how many times you can hop on your right foot, then your left foot. Which foot could you hop the most? How much more? Can you do 120 hops on both feet?</p>	<p align="center">Story Time!</p> <p>Joy has 10 marbles in one hand and 10 marbles in her other hand. How many marbles does joy have?</p> 	<p align="center">Fact Families!</p> <p>The three numbers in my fact family are 7, 3, and 10. What are the 2 addition and 2 subtraction number sentences using these 3 numbers?</p>	<p align="center">Skip Counting!</p> <p>Skip count by 2's, 5's and 10's from different starting numbers. (Ex. Count by 10's to 64 starting at 4.) Write the numbers. What patterns do you see?</p>
<p align="center">Make 2 Digit Numbers!</p> <p>Use the digits 8, 2, 3, and 7 to make 4 different two-digit numbers less than 40. Write them in order from <i>greatest</i> to <i>least</i>.</p>	<p align="center">Happy Counting!</p> <p>Start at 0 count by 10's to 120. Can you now count back from 120 by 10's?</p> 	<p align="center">Draw 10 More!</p> <p>Use quick tens to draw 10 more than these numbers.</p> <p>10 more than 27 10 more than 33 10 more than 40</p>	<p align="center">Shorter & Longer!</p> <p>Find items shorter than a: Shoe and You</p> <p>Find items longer than a: Pencil and You</p>	<p align="center">Roll a Value!</p> <ol style="list-style-type: none"> Roll two dice Use dimes and pennies to make that amount of money. What is the total value of the dice. <p>Ex. Roll a 2 and a 1 2 dimes (10) 1 penny = 21</p>
<p align="center">Going To Boston</p> <p>Roll 3 dice, keep the highest. Roll the remaining dice and again keep the highest. Roll the last die, and add up your total and write it down. Play as many rounds as you want and the player with the highest score is the winner.</p>	<p align="center">Less Than or Greater Than!</p> <ul style="list-style-type: none"> 1 ten _____ 24 26 _____ 2 tens 3 ones 3 tens 9 ones _____ 29 13 _____ 3 tens 1 one <p align="center">51 > 15 22 < 32</p>	<p align="center">Beat That!</p> <p>Roll 2 dice and put them in order to make the highest number. Write down your number, pass the dice, and challenge the next player to BEAT THAT!</p> 	<p align="center">Story Time!</p> <p>A small pack of gum has 6 pieces. How many pieces of gum are in 5 packs? Draw a picture to solve the problem.</p> 	<p align="center">The Say Ten Way!</p> <p>Count up from 15 and count to 27 the say ten way. Now start at 47 and count to 60 the say ten way.</p> <p>1 ten 5, 1 ten, 6, 1 ten 7, ...</p>








Math Activity Choice Board for Incoming 3rd Graders

<p>A farmer has 4 cows, 2 ducks, and 2 pigs. How many legs are on the farm?</p> 	<p>Tour your bedroom. List all of the two dimensional and three dimensional shapes that you can find.</p> 	<p>Use quarters, dimes and nickels to make \$1.00. How many different ways can you make \$1.00?</p> 	<p>Write these numbers in standard form, expanded form and unit form.</p> <p>One thousand sixty-five Four hundred fifteen Forty-one</p>	<p>Find all the coins you can, then sort and count them. What's your total?</p> 
<p>Count the number of forks and then the number of spoons in your home. How many are there altogether? Write the addition number sentence to match this math.</p>	<p>How many edges and faces does a rectangular prism have? Cube? Cylinder?</p> 	<p>Count up by tens from 120 to 410.</p> 	<p>Solve $345 + 225$, two different ways. (Arrow Way, drawing a place value chart, number bonds, or vertical method)</p>	<p>List all addition facts for 10. Then list all the addition facts for 20. What pattern do you notice?</p>
<p>Break Apart 20 in 20 different ways.</p> 	<p>Solve $299 + 399$, two different ways. (Arrow Way, drawing a place value chart, number bonds, or vertical method)</p>	<p>Find the ages of 5 family members by subtracting the year they were born from 2020.</p> 	<p>Say a 3-digit number. What is 100 more, 100 less, 10 more, and 10 less? Repeat with a new 3-digit number 3 times.</p>	<p>Count up by fives from 415 to 545.</p> 
<p>Solve $467 - 238$ two different ways. (Arrow Way, drawing a place value chart, vertical method or number bonds)</p> 	<p>I bought an ice cream for 63 cents. I paid with \$1. How much change did I get back? Show the least amount of coins the cashier could give me.</p>	<p>Count the number of socks in your drawer and the number of shoes in your closet. What is the difference?</p>	<p>Make a list of 15 items that come in groups. For example; eggs come in a group of 12.</p> 	<p>Roll 2 dice and put them in order to make the highest number. Write down your number, pass the dice, and challenge the next player to beat that.</p> 

Math Activities Choice Board for Incoming 4th Graders

<p>Make the number 100 using the digits 0,1,2,3,4,5,6,7,8,9 (Example: $9 \times 8 = 72$, add that to $4 \times 7 = 28$, that equals 100)</p> 	<p>Write down the temperature everyday this week. What was the biggest increase in temperature? What was the lowest? Can you make a graph of your data?</p> 	<p>What is your house number or street address number? Create any equation using addition, subtraction, multiplication and/or division that will equal that number.</p> 	<p>Write down the time twice today, once in the morning and once in the afternoon. How much time has elapsed? (Example: 11:30 am-2:45 pm- The elapsed time is 3 hours and 15 minutes)</p>	<p>Write a story problem about your favorite summer activity. You can use addition, subtraction, multiplication, or division. Be creative, and include items you would use to do the activity.</p>
<p>Write down a list of all of the two dimensional and three dimensional shapes you see in your home. (Example: A doorway is a rectangle, a soda can is a cylinder)</p>	<p>Fill any glass halfway with water and estimate how many ounces that is. Then pour the liquid into a measuring cup to see how close you were. (Remember, there are 8 oz. in 1 cup.)</p>	<p>Find 3 things in your home that you think are about 12 inches long. Measure them with a ruler or tape measure. Was your estimate close?</p> 	<p>Measure the length and the width of a table you have in your home. What is the area of the table? What is the perimeter of the table?</p> 	<p>Can you guess the number? It is an even number. It is greater than 7×6 and less than 6×10. It has one factor of 7. Can you create a similar type problem and stump your family?</p>
<p>How many seconds are there in 5 minutes? How many minutes are there in 4 hours? How many seconds are in $2 \frac{1}{2}$ minutes?</p> 	<p>Can you find the perimeter of the front of a box in your home in centimeters? Can you draw a different shape that has the same perimeter?</p>	<p>Measure your height in inches. Now take a can of some type and estimate how many cans you will need to stack to equal your height. How can you find out if you are correct? What strategy did you use?</p>	<p>If you took $\frac{1}{2}$ cup of Cheerios and lined them up side by side, how long do you think your line will be? Estimate in inches and centimeters. IF you can, test your estimate by lining them up and measuring with a ruler, see how close you were.</p>	<p>Grab a handful of coins. Count them. Write it down. Grab another handful of coins, count them, and write it down. Add the two amounts and find the difference.</p> 
<p>Spend time rolling dice. Each time you roll the dice, say the number represented by the dots. You can add or multiply the numbers on the dice. Practice your facts this way.</p> 	<p>A farmer has 9 cows, 8 ducks, and 7 pigs. How many legs are on the farm? Explain how you solved this problem with symbols and words.</p> 	<p>See if you can find at least 24 pennies. Using twelve of them divide them into groups with 4 in a group. Take another 12 pennies and divide those into 4 groups. What do you notice?</p> 	<p>Use a deck of cards. (Do not use face cards.) Turn over 2 cards and make a fraction. Write down the fraction and then decompose the fraction into a benchmark fraction addition sentence. (Example: $\frac{3}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$)</p> 	<p>Skip count by 2s, and then 4s, then repeat. The 2nd time, when you skip count by 2s, whisper every other number starting with 2. What do you notice? Now, skip count by 3s, and then 6s. This time, when you skip count by 3s, whisper every other number starting with 3. Do you notice anything?</p>

Math Activities Board for Incoming 5th Graders

<p>There are 33 wheels. How many tricycles? How many pedals?</p> 	<p>There are 12 people on each team The blue team has $\frac{1}{4}$ girls. The red team has 6 girls. How many boys are on the blue team? What fraction of the red team is boys?</p>	<p>Rectangles are worth 1 hundred thousand, hexagons are worth ten thousand, pentagons are worth one hundred, quadrilaterals are worth ten, and triangles are worth 1. Create a picture of two hundred seventy thousand five hundred thirty-six. Write the number.</p>	<p>Draw a tape diagram divided into eighths. Color $\frac{2}{8}$ blue, $\frac{1}{4}$ green, $\frac{1}{2}$ yellow. Write 2 other fractions which could describe the portion that you have shaded yellow.</p>	<p>Draw pictures of things you would measure using:</p> <ul style="list-style-type: none"> • Grams • Kilograms • Milliliters • Liters • Meters • Kilometers
<p>There are 80 fingers. How many right hands? How many arms?</p> 	<p>Draw 16 balloons.</p> <ul style="list-style-type: none"> • $\frac{1}{4}$ are red • $\frac{2}{8}$ are blue. <p>The rest are yellow. What fraction of the balloons are yellow?</p>	<p>Pick a two digit number, multiply it by 10 and subtract the original number. Is this number divisible by 9? Why? Try this 4 more times.</p>	<p>Draw a trapezoid with a 12 inch perimeter. What is another shape that can be called a trapezoid?</p>	<p>Find 4 ways to divide 100 into equal groups. Choose a different number and do it again.</p> 
<p>Measure the perimeter of two different objects in your home. Find the difference of the two perimeters.</p> 	<p>What number is 10 more than 4492? What number is 300 more than 4830? What number is 500 more than 4654? Make your own 4 digit number and answer the same questions.</p> 	<p>Roll a die 5 times, write down your rolls, put the numbers you rolled in order to make the lowest number. The player that makes the lowest number- is the winner of the round.</p> 	<p>What number am I? I am less than 25×10 and greater than 22×10. I am a multiple of 5. I am odd. The sum of my digits is 10. Now come up with your own math riddle.</p>	<p>Grab 10 coins and find the value. Grab another 10 coins and find the value. Find the difference between the two sets of coins. Try it again.</p> 
<p>Draw a parallelogram with a 10 centimeter perimeter.</p>	<p>Find a box no larger than a shoebox. Measure the perimeter of the top of the box. If the stamp is 1in .x 1in., how many are needed to make a border around the top? Try this with a different box.</p>	<p>Draw 3 circles and shade:</p> <ul style="list-style-type: none"> • $\frac{1}{2}$ • $\frac{2}{4}$ • $\frac{4}{8}$ <p>If you continue this pattern, what fraction would come next?</p>	<p>Plan a meal for your family. Create the menu and use online grocery apps to find the prices of the needed foods. How much will it cost?</p>	<p>Draw jars that are about .33 full, .40 full, .75 full. Under each one, write the fraction that describes how empty each jar is.</p>