



# Clover School District

## Summer Math Learning Packet

### *Rising Third Grade*



These summer math activities will enable your child to review math concepts and reinforce skills learned this year. Just a few minutes each day spent “thinking and talking about math” will help reinforce all the math that has been learned and begin to bridge the foundation for extending to concepts that will be developed next year. The goal is for your child to have fun thinking and working collaboratively to communicate mathematical ideas. While your child is working, ask him/her how the solution was found and why a particular strategy was chosen.

#### **The math practice in this summer packet addresses 4 critical areas in grade 2:**

1. extending understanding of base ten notation
2. building fluency with addition and subtraction
3. using standard units of measure
4. describing and analyzing shapes

This packet consists of 2 calendar pages, one for June and one for July. There are problems included for each day of the week, excluding weekends. Literature, APPs and websites are also recommended to explore mathematics in different ways. We encourage your child to complete at least 15 math days each month. We hope your child will spend at least 10 minutes a day, 4 to 5 times a week, practicing math. Create a goal with your child to help him/her stay strong in math over the summer. For example, my child will aim to complete at least 200 minutes of math practice over the course of the summer and keep track of his/her learning in a math journal. A math journal records your work either in print or digital format. See the example of a “great” journal entry.

**If the activities suggested do not seem to “fit your child” or you have your own websites/literature/math practice you would like to do, please feel free to substitute your own activities that better suit your child’s needs or learning style.**

Student mathematicians - keep your mathematics skills sharp and have a safe and enjoyable summer. ☺





## Grade 3 Students Summer Math Ideas

### Math Tools You Will Need:

Notebook for math journal	Coins
Pencil	Dice
Chalk	Toothpicks
Regular Deck of Playing Cards	Tape Measure/Yard Stick
Ruler	

### DIRECTIONS:

Do your best to complete as many of these summer math activities as you can! Record your work in your math journal every day. In August, share your Math Journal with your third grade teacher.

### Each journal entry should:

- ✓ Have the date of the entry
- ✓ Have a clear and complete answer
- ✓ Be neat and organized

### Here is an example of a “Great” journal entry:

June 20, 2022  
Today I found 3 different ways to make \$1.00. First, I used 3-quarters, 2-dimes, and 1-nickel to total \$1.00. Next, I had 5-dimes, and 2-quarters and this also totaled \$1.00. Finally, I had 2-quarters, 2-dimes, and 6-nickels. These are the three different ways I combined coins to make \$1.00.

### Websites:

<http://illuminations.nctm.org/Games-Puzzles.aspx>  
<http://www.funbrain.com/>  
<http://www.aplusmath.com/>  
<http://pbskids.org/cyberchase/math-games/>  
<http://www.gregtangmath.com/>  
<http://bedtimemath.org>  
<http://www.figurethis.org./index.html>  
<http://www.summermathtools.weebly.com>  
<http://www.mathgoodies.com>  
<http://www.brainbashers.com/>  
<http://hoodamath.com>  
<http://www.mathsisfun.com/index.htm>

### Math Books to Read:

[Amanda Bean's Amazing Dream](#) by Cindy Neuschwander  
[The Greedy Triangle](#) by Marilyn Burns  
[Measuring Penny](#) by Loreen Leedy  
[Math for All Seasons](#) by Greg Tang

### Games to Play: (You will need a regular deck of cards.)

#### 1. Compare - Addition and Subtraction

Pass out all the cards to players. Each player flips over two cards. Add or subtract the two numbers showing. Players compare their values and the person with the higher value wins all four cards.

#### 2. Close to 100

Deal 6 cards to each player. Use any 4 of your cards to make two 2-digit numbers. (Aces = 1; Jacks, Queens, & Kings = WILD cards, stand for any digit 0-9) Try to make a combination that when added is close to or exactly 100.

5            4            3            A            8            3

You combine 48 and 53 to make 101. Your score is 1 since the difference between 101 and 100 is 1. You make a recording sheet in your journal like this: Round 1:  $48 + 53 = 101$  Score 1. Put the cards you used in the discard pile. Keep the other two for the next round. Pick up four more cards and play 5 rounds. Add the score to each round. The lowest score after 5 rounds wins.

**Other games to play:** Checkers, Othello, Memory, Set, jigsaw puzzles, Parcheesi, Crazy Eights, Connect Four, Legos, K'Nex.


### Worksheets to Practice Math:

<http://www.commoncoresheets.com/>  
<http://www.gregtangmath.com/resources>

### APPs:

Grades 3-5	All Grades
<ul style="list-style-type: none"> <li>• Everyday Mathematics, Addition Top It</li> <li>• Everyday Mathematics, Beat the Computer, Multiplication</li> <li>• Everyday Mathematics, Divisibility Dash</li> <li>• Everyday Mathematics, Equivalent Fractions</li> <li>• Pizza Fractions 1</li> <li>• My Times Tables</li> <li>• Tony's Fraction's Pizza Shop</li> <li>• Pearl Diver HD</li> <li>• Lobster Diver HD</li> <li>• Factor Samurai – multiplication and division</li> <li>• Fraction App by tap to Learn</li> <li>• Dare to Share Fairly</li> <li>• Long Division Touch</li> <li>• Math Ninja HD</li> <li>• Quick Math</li> <li>• Wuzzit Trouble</li> <li>• Sushi Monster</li> <li>• Deep Sea Duel</li> <li>• Zap Zap Fractions</li> <li>• MathLand (Critical Thinking skills)</li> </ul>	<ul style="list-style-type: none"> <li>• KENKEN</li> <li>• Kakooma Addition, Times</li> <li>• Quick Math – Arithmetic &amp; Times Tables</li> <li>• Pick-a-Path</li> <li>• Sumdog</li> <li>• Conundra Math</li> <li>• Thinking Blocks</li> <li>• Fast Facts Addition, Subtraction</li> <li>• Fast Facts Multiplication, Division</li> </ul>

# June 2023 Rising Third Grade Mathematics Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				<p>1 Play a strategy game like <b>Othello</b> or <b>Checkers</b>. Plan a strategy to win. Did your strategy work? Will you try a different strategy the next time you play? Play again with a different strategy.</p>	<p>2 500+60+8 is a number. Write it as a three-digit number. Write its name in words. Draw a picture to represent the number. Locate it on the number line.</p>	3
4	<p>5 You have \$1.50 in your pocket. Make a list of 10 different combinations of coins you could have in your pocket.</p>	<p>6 Cut out a picture from a magazine or newspaper. Glue it to a piece of paper. Write a story problem to go along with the picture. Challenge a friend to solve it!</p>	<p>7 Find a flower with an odd number of petals. Draw a picture of the flower. Do all flowers have the same number of petals?</p>	<p>8 Read <i>Measuring Penny</i> by Loreen Leedy.  Find an animal, real or stuffed, to measure with inches and centimeters.</p>	<p>9 You won first place at a contest! You have two choices for the prize -You can take \$20 home with you today OR \$2 a day for the next 15 days. Which option earns more money? How much more?</p>	10
11	<p>12 Add the ages of all the people who live in your house. What is the sum? Is it greater than or less than 100? By how much?</p>	<p>13 Keep track of the temperature every day for the week. Draw a bar graph. Compare the difference in temperatures.</p>	<p>14 Using sidewalk chalk write as many multiplication facts as you know in one minute.</p>	<p>15 Use all the digits 5, 7, and 2 to create different 3-digit numbers. What is the greatest number? What is the smallest number? How do you know?</p>	<p>16 Find at least 5 different ways to make \$1.00 using nickels, dimes, and quarters.</p>	17
18	<p>19 Use &lt;, =, or &gt; to complete the following number sentences. 657    457+100+100  923+10    953-10-10-10  Write one of your own.</p>	<p>20 Read <i>Amanda Bean's Amazing Dream</i> by Cindy Neuschwander.  Count all of the books in your house.</p>	<p>21 Write the numbers below in expanded form. (Ex. 583 = 500 +80 +3)  729    846    295</p>	<p>22 100 is the answer, what could the question possibly be? Challenge yourself to think of more questions.</p>	<p>23 Pia was having a party. She put 10 stickers in each party bag. She made 12 bags with 10 stickers in each one. How many stickers total were in the 12 bags?</p>	24
25	<p>26 Explore one of the recommended websites. What math did you learn?</p>	<p>27 Play Close to 100. (see directions)  How does it help you to get better at addition?</p>	<p>28 Using sidewalk chalk write as many division facts as you know in one minute.</p>	<p>29 Ask an adult to teach you a card trick. Practice the trick and try it out on a friend.  What math was involved?</p>	<p>30 Plant a seed. Will it grow to be about 12 inches or 12 feet? How do you know? Measure and record the height twice a week to keep track of how high it grows.</p>	

# July 2023 Rising Third Grade Mathematics Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2	3 115 + 6 = 113 + Copy this problem in your journal and fill in the blank. Explain how you got the answer.	4 If you start playing a game at 8am. and play for one and a half hour, what time is it when you're done? How do you know?	5 Read <i>The Greedy Triangle</i> by Marilyn Burns. Follow along using toothpicks to make the polygons.	6 How many times can you hop on your left foot in a minute? Your right foot? Compare the using the symbols <, > or =. What is the difference?	7 Starting with 101, skip count by 100 until you get to 1,001. What pattern do you notice? Try starting with different numbers.	8
9	10 Use a grocery store flyer to plan a breakfast. List all the items you need and record the price of each item. How much will breakfast cost?	11 Go on a shape hunt for quadrilaterals. How many can you find? How are their attributes the same or different?	12 How many ten-dollar bills equal a hundred-dollar bill? Jen had 20 ten-dollar bills. How many hundred-dollar bills can she trade them for?	13 Play <b>Guess My Rule</b> on the following website. <a href="http://www.mathplayground.com">www.mathplayground.com</a> What new math vocabulary did you learn?	14 Estimate how long it will take you to do 100 jumping jacks. Did it take more or less than 5 minutes? Record your time and compare with a friend.	15
16	17 Find a bar graph in a newspaper, magazine, or online and talk to an adult about what the numbers mean.	18 Play <b>Building Blocks</b> on the following website - <a href="http://www.mathplayground.com">www.mathplayground.com</a> . Describe how you see the shapes fitting together.	19 Stand and jump as far as you can, and measure using a yardstick, meter stick, or tape measure. Jump 3 times and compare your measurements.	20 Play Compare. (see directions) How does this help you to practice your facts?	21 Write down the years people who live with you were born. Put them in order from least to greatest.	22
23	24 Ask an adult to listen to you as you: Count to 100 by 10's Count to 100 by 5's Count to 1000 by 100's	25 Play <b>Close to 100</b> . (see directions)  How does it help you to get better at addition?	26 Explain how you add 43+34+57+24.	27 Read <i>Math for All Seasons</i> by Greg Tang.  Make up your own math riddle.	28 Compare and record some three-digit numbers using >, < and =.  Example: 324 > 314	29
30	31 Play <b>Hidden Picture Subtraction</b> from the website below. <a href="http://www.aplusmath.com">www.aplusmath.com</a>	YOU DID IT! Please bring your journal to your third grade teacher on the first day of school.	