

Grade 2 Math

These activities focus on both mathematical skills and problem solving. Some problems require answers from previous days but, overall, you may do the problems in any order or any day that you choose. **Create a math journal by stapling sheets of paper together or use a notebook to show your work. !**

PICK AT LEAST 15 CALENDAR ACTIVITIES AND

COMPLETE THEM IN YOUR MATH JOURNAL!

YOUR COMPLETED JOURNAL MUST BE TURNED IN THE FIRST WEEK OF SCHOOL

A list of suggested books and resources needed are included at the end of each grade level packet.

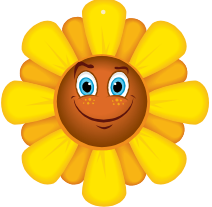
For Students Entering Grade 2

- Represent and solve problems involving addition and subtraction
- Understand and apply properties of operations and the relationship between addition and subtraction
- **Add and subtract within 20 (Fluently add and subtract within 10)**
- Work with addition and subtraction equations within 100
- Extend the counting sequence
- **Count, read, and write numbers up to 120 from any number**
- Understand place value
- Use place value understanding and properties of operations to add and subtract
- Tell and write time in hours and half-hours
- Represent and interpret data
- Reason with shapes and their attributes

Throughout the summer, **practice basic addition and subtraction facts**. Also, during the summer, practice using strategies to build number sense (doubles, doubles + 1, making 10...), telling time to nearest hour and half-hour using analog and digital clocks, and counting, reading, and writing numbers up to 120.

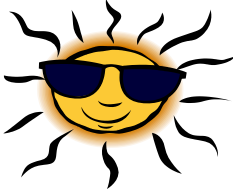
FOR STUDENTS ENTERING GRADE 2

JUNE 2017

Monday	Tuesday	Wednesday	Thursday	Friday
<p>Using a deck of cards, flip over two cards, and find the sum. Do this at least 10 times. Repeat again, but this time, find the difference between the two cards. <i>Aces are equal to one.</i> <i>Remove all face cards.</i></p>	<p>Take a walk outside with a family member. Make a list of all of the triangles and squares you see in your neighborhood.</p>	<p>First predict how many times you can jump in a minute. Compare your prediction to the actual number of jumps.</p>	<p>Draw a picture of $45+19$ using tens and ones. How did you add these two numbers?</p>	<p>Find a group of objects to sort (toys, food, clothing, etc.) Find at least two ways to sort. Share with a family member.</p>
<p>Read a math book from the list.</p>	<p>List as many ways possible to find the sum of 20. List as many ways possible to find the sum of 15.</p>	<p>Write all of the number sentences that have a sum of 13. Do you have them all? How do you know?</p>	<p>Go on a shape hunt. Look for items that are 3 dimensional (sphere, cubes, cylinders, etc.) Make a chart listing the items found with the shape. What 2-dimensional shapes do you see on the 3-dimensional shapes?</p>	

FOR STUDENTS ENTERING GRADE 2

JULY 2017

Monday	Tuesday	Wednesday	Thursday	Friday
<p>Keep track of the weather for two weeks. How many days were sunny days? Cloudy days? Raining days? How many more sunny days than rainy days?</p>	<p>Draw a picture using two circles, three triangles, some squares, and one rhombus. Explain to your parent/guardian how you made your picture.</p>		<p>Starting from January 1, 2017, what is the 120th day of the year? If I counted 120 days after that day, what day of the year would it be?</p>	<p>Count 37 objects (raisins, peanuts, candy, and cereal). From the 37 objects, make a pile of 26 using your objects. How many objects are left in your pile?</p>
<p>Take a walk outside with another family member. Record how many birds, dogs, and cats you see. Write a number sentence to show the total number of dogs, cats, and birds you saw.</p>	<p>How many letters are in your first and last name? Choose another family member and count how many letters are in their first and last name? Who has more letters?</p>	<p>What date is 5 days before July 13? What day of the week is that date? How many months in 2017 have that date on the same day of the week?</p>	<p>Draw the hands on a clock to show 2:30.</p>	<p>Practice counting forward and backwards starting with numbers other than one. Write the numbers you have counted forward and backwards. You must go forward and backwards to at least 8 numbers. Repeat 4 times.</p>
<p>Tell a friend a story problem to go with $14 + 6$. Draw an illustration for your story problem.</p>	<p>Draw the hands on a clock to show 6:30.</p>	<p>Write all the math facts that you can think of that have 12 as an answer.</p>	<p>Find objects at home to count such as beans, buttons, pasta, popcorn, etc. Count 100. Draw a picture to show how many groups of 10 you can make. How many groups of 5 can you make? Share with your parent/guardian.</p>	<p>Ask your parent/guardian for 2 dimes, 3 nickels, 9 pennies, and a quarter. Draw a picture of your coins. Ask your parent/guardian to place on a table 1 quarter, 3 dimes, and 3 nickels. Who has the most money? How do you know?</p>
<p>The farmer put 17 tomatoes in a bowl. His wife took 6 tomatoes from the bowl. How many tomatoes are still in the bowl?</p>	<p>Write a 2-digit number. Write a second number. Is your second number less than or greater than your first number? Write a third number. Is your third number less than or greater than your first number? number?</p>	<p>Count by fives to 100. Start with the number 0. Count by tens starting with 11. What is the 10th number in your sequence?</p>	<p>Write an addition story problem using animals.</p>	<p>Write a subtraction story problem using family members.</p>

FOR STUDENTS ENTERING GRADE 2

August 2017

Monday	Tuesday	Wednesday	Thursday	Friday
<p>A family member wrote:</p> $12 + \square = 18$ <p>What should go in the box? Prove your answer.</p>	<p>Draw a number line beginning with 0. Place only the following numbers on your number line: 45, 25, 35, and 15. How did you decide where to place the numbers?</p>	<p>How many Mondays are in January through April of 2017?</p>	<p>Draw 2 clock faces. Draw the hour hand and minute hand on the faces of the clocks to show the following times: 6:00 1:30</p>	<p>List your 4 favorite ice cream flavors. Survey 12 family members or friends and make a tally chart to show which of the ice cream flavors they like best.</p>
<p>Read a math book from the list.</p>	<p>How many Mondays are in July and August? (Make sure to look at a calendar for this year.)</p>	<p>At bath time, estimate how many minutes it takes to fill the bathtub. Then, have an adult time it with a watch or clock. How close was your estimate to the actual time?</p>	<p>Write the doubles facts (ex., $2 + 2$, $5 + 5$) to 20. What patterns do you see?</p>	<p>Grab a handful of coins. Sort the coins by value and name each coin (penny, nickel, dime, quarter). Make a chart.</p>

Suggested Math Reading for Primary Grades

Title	Author
1. 12 Ways to Get to 11 (Addition)	Eve Merriam
2. A Fair Bear Share (Subtraction)	Stuart J. Murphy
3. Animals on Board (Addition)	Stuart J. Murphy
4. Dominoes Addition	Lynette Long
5. Mission: Addition	Loreen Leedy
6. Pizza Counting (Addition)	Christina Dobson
7. Two of Everything (Doubling)	Lily Toy Hong
8. Actual Size (Measurement)	Steve Jenkins
9. Betcha! (Estimation)	Stuart J. Murphy
10. Count on Pablo	Barbara deRubertis
11. Fish Eyes: A Book You Can Count On	Lois Ehlert
12. From One to One Hundred	Teri Sloat
13. Two Ways to Count to Ten: A Liberian Folktale	Ruby Dee
14. What Comes in 2's, 3's, and 4's?	Suzanne Aker
15. Ten Black Dots	Donald Crews
16. The Man Who Counted: A Collection of Mathematical Adventures	Malba Tahan
17. Fraction Action	Loreen Leedy
18. Eight Hands Round (Shapes)	Ann Whitford Paul
19. Apple Fractions	Jerry Pallotta
20. Fraction Fun	David A. Adler
21. Math in the Bath	Sara Atherlay

22. Place Value	David Adler
23. Big Ideas for Small Mathematicians: Kids Discovering the Beauty of Math	Ann Kajander
24. Whole-y Cow!: Fractions are Fun	Taryn Souders
25. The Great Graph Contest	Loreen Leedy
26. One Foot Two Feet: An Exceptional Counting Book	Peter Maloney
27. Earth Day-hooray	Stuart Murphy
28. Let's Make a Bar Graph	Robin Nelson
29. I See A Pattern Here	Bruce Goldstone
30. Beep Beep, Vroom Vroom!	Stuart Murphy
31. The Sunday Scoop	Stuart Murphy
32. Place Value Level 2 Practice Pages and Easy-to Play Learning Games for Base-ten number concepts	April Duff
33. **Math for Children Measurement	Publisher Schlessinger Media
34. **Einstein's Math Video Tutor: Volume Two ages 5-7	Publisher Penton Overseas
35. **Einstein's Math Video Tutor: Volume Three ages 7-9	Publisher Penton Overseas
** Suggested DVD	