

## Summer Math & Literacy Practice Getting Ready for Grade 1

Dear Parents,

Congratulations on the completion of a wonderful school year with your child. Your partnership with your child's teacher is among the biggest factors in their success. As we look ahead to the summer break, we want to continue that partnership and ensure all students will find time to enjoy some pleasurable reading, writing, and math activities during the break.



Research has shown that over the summer months students often regress in their academic skills by one month or more. Each year, considerable instructional time is spent reviewing skills and knowledge lost over the summer. This summer learning effect has been observed in schools around the world and can contribute to a widening gap in achievement over time. This data reinforces the importance of reading and practicing Math and Literacy skills over the summer holiday. For this reason, we have created calendars with fun Math and Literacy activities for your child to complete over the summer months.

These summer activities will enable your child to review concepts and reinforce skills learned during the past school year. The work they do over the summer will be turned in to your child's teacher and reviewed in class during Group Share and Evaluation time at the start of the school year.

### **In Kindergarten, instructional time in math focused on two critical areas:**

1. Representing, relating, and operating on whole numbers, initially with sets of objects.
2. Describing shapes and space. More learning time in Kindergarten should be devoted to number than to other topics.

### **In Kindergarten, instructional time in Literacy focused on:**

1. Hearing, representing, and writing consonant sounds at the beginning and ends of words accurately.
2. Establishing relationships between print and pictures and communicating this meaning through drawings and writing.
3. Mastering print concepts and conveying understanding through oral comprehension and vocabulary.

Just a few minutes each day spent thinking and talking about math and practicing literacy skills will help reinforce the learning that has happened over the past year and will build the foundation for the skills and concepts that will be developed during the upcoming school year. This summer learning packet consists of 2 calendar pages, one for July and one for August. Literature and websites are also recommended to explore mathematics and literacy in new ways. While your child is working on math problems, discuss the math concept being targeted. Your child should aim to complete at least 15 math days each month as well as weekly literacy prompts. Additionally, students should be reading individually or with a parent at least 30 minutes a day.

**\*Please have your child highlight which math problems they did on the attached calendar pages and be prepared to turn in a notebook showing their calendar math and literacy work upon return to school. Orientation/Open House is on Wednesday August 29 and the first day of classes is on August 30, 2018.**

Wishing you a safe and restful summer!

## Parent Tips for Supporting Your Child with Summer Work

In order for your child to benefit from summer work, they should space the practice work out over the summer, opting to do a little bit each week rather than all of it at once at the beginning of summer or right before returning to school in August.

### Tips for Helping Your Child with Literacy:

Help your child choose books that they can read without much help. While they are reading, help them do the following:

- Identify high-frequency words (e.g., the, I, in, he).
- Encourage your child to use pictures to help identify unknown words.
- Match one-to-one (pointing to a word while saying it) consistently.
- Use the beginning letter/sound to problem-solve words and to confirm word choice.
- Re-read familiar books to help build fluency.
- Encourage student to read in phrases and not just word for word.
- Talk about what is happening in the illustrations or photographs.
- Recall some events in a story.

While they are writing, help them to:

- Practice sounding out words they want to say phonetically.
- Put finger spaces between words on a page.
- Stay in the lines when they are forming their letters.
- Add details and colors to their drawings.

### Tips for Helping Your Child with Math:

- Expect your child to work hard and be good at math.
- Ask “How did you get that?” “Can you show me another way to do that?” “Remember how you did \_\_\_\_\_, see if you can use that same strategy.”
- Encourage your child to stick with a task even if it seems challenging.
- Highlight the math in everyday activities, such as cooking, shopping, and playing sports.
- Play math games like Yahtzee and Monopoly. Playing with blocks and completing jigsaw puzzles are great ways to help reinforce spatial skills and look for patterns.
- If you see signs of frustration, suggest leaving the problem for a day or two and returning to it with fresh perspective at another point.
- Listen carefully to how your child is thinking about math.
- Let them figure it out themselves by asking questions without telling them what to do. Here are some great conversation prompts as your child works through their summer math.

#### **In the beginning...**

What do you know?

What do you need to find out? How might you begin?

What should you do first?

#### **While working....**

How can you organize your information?

Can you make a drawing to explain your thinking?

What would happen if...?

What do you need to do next?

Do you see any patterns? Any relationships?

Can you predict...?

Does this remind you of any other problems you've done?

*Special Thanks to [Project Aero](#) and Ms. Erma Anderson for the Summer Math Calendars!*

#### **Reflecting on Solutions...**

Is your solution reasonable?

How did you arrive at your answer?

Can you convince me that your solution makes sense? What did you try that didn't work?

#### **Responding...**

Your response is as important as your initial question. Continue to discuss problems even after children have their answer. This will give your child a chance to clarify thinking and make more connections.

#### **You can ask:**

How do you know that your answer makes sense?

Do you know another way to solve this?

Do you think there is more than one answer? How could we find out?

## JULY MATH PRACTICE

	Monday	Tuesday	Wednesday	Thursday	Friday	
1	<b>2)</b> Count how many shoes YOU have. Write down the number. Count how many shoes another family member has. Write down the number. Who has more/less?	<b>3)</b> Talk with someone about things you might find outside (rocks, leaves, sticks). Go outside on a nature walk and collect small items you find. Sort them by color, shape, or size and count them.	<b>4)</b> Use sidewalk chalk to write all the numbers (in order) that you can. Next to each number draw that many suns. (Use paper and pencil if you do not have chalk.)	<b>5)</b> Find 10 coins. Toss the ten coins. How many land heads up? How many land tails up? Record your numbers. Did you get the same result? Keep repeating! What are you noticing?	<b>6)</b> Let's go shopping! In my cart I have 12 eggs, six apples, and 3 cans of soup. Draw a picture of my cart and what is inside. What do I have the most of?	7
<b>Literacy Prompt week of July 2: Draw and write about one thing you like to eat during the summer.</b>						
8	<b>9)</b> How many jumping jacks can you do in one minute? Is it more or less than 20? How do you know?	<b>10)</b> Ask your family and friends "Do you like sharks or lions better?" Record everyone's answers. Which animal did people like the most/least or were they the same?	<b>11)</b> Count backwards how long it will take you to put on your shoes. For example, when you start putting them on count 20, 19, 18...	<b>12)</b> Grab a handful of objects (pennies, beads, marbles...) Guess how many there are. Count your objects. Were you close to your estimate?	<b>13)</b> Keep track of the weather for one week. How many sunny days? Rainy days? How many more rainy days or sunny days were there? Were there any windy days?	14
<b>Literacy Prompt week of July 9: Draw and write about something you did this week that made you happy. Why did you feel happy?</b>						
15	<b>16)</b> Count the people who live in your house with you. How many toes do they have altogether? How many fingers? Draw a picture and label it.	<b>17)</b> Write your name on a piece of paper. How many letters are there in your name? Write each family member's name on a paper too. How many letters are there in their names? Write the number beside each name.	<b>18)</b> Walk around the house. How many steps does it take you to get around your house? Then try giant steps. Which used more steps? Make sure you start and stop at the same spot!	<b>19)</b> Hop on your right foot and count how many hops you can do. Hop on your left foot and count how many hops you can do. Which foot could you hop on more? Which foot could you hop on less? Compare.	<b>20)</b> Read a counting book or talk about counting with someone and then make a counting book of your own. Did you decide to make it counting forward or backwards?	21
<b>Literacy Prompt week of July 16: My favourite animal is _____. Draw and write about your favourite animal.</b>						
22	<b>23)</b> Make a picture using 2 circles, 3 triangles, 1 square, and 5 rectangles. Explain how you made it to someone! Have them count all the shapes.	<b>24)</b> Try to explore... <a href="http://playkidsgames.com">http://playkidsgames.com</a> What math did you learn? If you can't explore a website, come up with your own math game and have someone play with you!	<b>25)</b> Count backwards starting at 10... Then starting at: 15... Then starting at: 20...	<b>26)</b> Make shapes out of play-dough. If you don't have play-dough draw shapes. Count how many numbers you drew. Count how many sides your shapes have.	<b>27)</b> Pick a room in your house? How long is it? Measure with blocks or toys. Measure with your feet. Which was more? Which is less? Why?	28
<b>Literacy Prompt week of July 23: Do you like marshmallows? Why or why not?</b>						
29	<b>30)</b> Look at some of your toys. Try to sort them into groups. (by color, by size, by shape, by type) How many are there in each group?	<b>31)</b> Count the number of steps it takes to get from your front door to the refrigerator and from your front door to the bathroom. Represent these numbers. Which took longer?		<b>Fun Websites to explore:</b> <a href="https://www.funbrain.com/">https://www.funbrain.com/</a> <a href="https://www.nctm.org/illuminations/">https://www.nctm.org/illuminations/</a>	<a href="http://playkidsgames.com/">http://playkidsgames.com/</a> <a href="http://figurethis.nctm.org/">http://figurethis.nctm.org/</a> <a href="https://www.coolmath4kids.com/">https://www.coolmath4kids.com/</a>	

## AUGUST MATH PRACTICE

	Monday	Tuesday	Wednesday	Thursday	Friday	
			<b>1)</b> Draw three cube towers, the first with 3 cubes, the second with 5 cubes, and the third with 7 cubes. Circle the tower that is the tallest and put an X on the tower that is the shortest.	<b>2)</b> Three dogs were playing in the park. One more dog came to play. How many dogs are playing in the park? Draw a picture.	<b>3)</b> Name five different places you see numbers outside. (on street signs, stores, license plates...) Draw a picture of the places.	<b>4</b>
<b>Literacy Prompt week of July 30: Walking along the beach I see: list all the things you would see at the beach. Draw a picture of them.</b>						
<b>5</b>	<b>6)</b> Bobby Bear is missing 5 buttons on his jacket. How many ways can you use blue and red buttons to finish his jacket? Draw a picture of all your ideas.	<b>7)</b> Draw a picture that is divided into 3 parts. Label them morning, afternoon, and night. Draw a picture of what you do at each of these times. Which time of the day do you do the most things?	<b>8)</b> Complete a yes/no survey asking the people in your house, "Do you like the rain?" Record their answers by writing Yes and No. How many people said yes? How many people said no?	<b>9)</b> Find 10 coins. See how many different ways you can make the number 10. 5 heads and 5 tails, 7 heads and 3 tails, 7 tails and 3 heads, etc. Record your findings with pictures.	<b>10)</b> Pick a number from 1- 12. Find that number around your house! Look at clocks, phones, books, magazines, etc... Pick another number and repeat!	<b>11</b>
<b>Literacy Prompt week of August 6: Write a list and draw pictures of all the things you found under your bed.</b>						
<b>12</b>	<b>13)</b> Play a strategy game Connect 4 or Checkers. Did your strategy work? Will you try a different strategy the next time you play? If you don't have a game, see who can jump the most in 1 minute. Record your answers.	<b>14)</b> Estimate how many bites it will take to finish your cereal, soup, rice, sandwich, etc. before you start eating! Count each bite as you eat. How close were you to your estimate? Were you over or under?	<b>15)</b> Go around your house (or wherever you are staying) and count the windows and doors. Are there more windows or doors? Draw the one with more.	<b>16)</b> Practice "counting" on from numbers other than 1. Example: Start at 4 and stop at 18, start at 17 and stop at 20, start at 3 and stop at 10. Now come up with your own start/stop numbers.	<b>17)</b> Name different objects that come in groups of 1,2, 3,...etc. (12 eggs in a carton) Make your own book from 1 to 12 drawing a different group of objects for each number! Be sure to add a title.	<b>18</b>
<b>Literacy Prompt week of August 13: Do you like summer or winter better? Why?</b>						
<b>19</b>	<b>20)</b> I am thinking of a number. It has 1 ten and 5 ones. What number am I thinking of? (15) Make up some riddles using tens and ones. (1-19).	<b>21)</b> See how many people you can get to exercise with you. Do 10 each: jumping jacks, push-ups, sit-ups, and toe-touches. How many exercises did you do? Count by 10's.	<b>22)</b> Read Shape, Shape, Shapes by Tana Hoban or talk about shapes with your child. Walk outside. What shapes do you see? Draw & count the shapes you see.	<b>23)</b> Build something with 20 blocks or Legos. Describe your structure and the shapes you used. Draw your structure and label it.	<b>24)</b> Play with bubbles. How many can you blow in one minute? (you can use bubble gum or bottle bubbles) Draw a picture and label your bubbles with number.	<b>25</b>
<b>Literacy Prompt week of August 20: What is your favourite book year? Why?</b>			<b>Literacy Prompt week of August 27: What is one thing you are excited about this school year? Why?</b>			
<b>26</b>	<b>27)</b> Set the table for dinner! How many plates do you need to put out? How many forks? How many glasses? Draw a picture of the table. How many ITEMS are on the table altogether?	<b>28)</b> Skip count to 100 by 5s. Skip count to 100 by 10s. Which took longer? Write your answer.	<b>19)</b> Draw and label a picture of your family from tallest to shortest. Measure them using blocks, your feet, your hands, forks, pencils, etc. Remember to have them lie down!	<b>30)</b> Find a partner. Each person hides their hands behind their back. Say "1, 2, 3 GO!" On "GO," show a number on your fingers, 1, 2, 3, 4. Did your partner show the same number?More? Less?	<b>31)</b> Read a book about math. (There is great list attached to this calendar.)	

<b>SUMMER MATH HOMEWORK SELF-ASSESSMENT RUBRIC</b>				
	<b>Exemplary</b>	<b>Proficient</b>	<b>Beginning</b>	<b>Needs Improvement</b>
<b>Completion</b>	I completed more than 35 math calendar problems this summer.	I completed 30-35 math calendar problems this summer.	I completed fewer than 30 math calendar problems this summer.	I did not complete any math calendar problems this summer.
<b>Pacing</b>	I spent time working on calendar math problems weekly.	I usually worked on calendar math problems weekly.	I did not space out my calendar math problems weekly over the summer.	I did not complete any math calendar problems this summer.
<b>Quality and Neatness of Work</b>	I kept a notebook; I labelled each problem clearly; I showed my work neatly; I clearly identified my answers.	I kept a notebook; I usually labelled each problem; I sometimes showed my work; I sometimes identified my answers.	I did not keep a notebook; my work was done on scratch paper; I did not always show my work; I did not clearly identify my answers.	I did not complete any math calendar problems this summer.
<b>Accuracy</b>	My answers to summer math problems were more than 90% accurate.	My answers to summer math problems were 80-89% accurate.	My answers to summer math problems were 70-79% accurate.	My answers to summer math problems were less than 70% accurate.

<b>SUMMER LITERACY HOMEWORK SELF-ASSESSMENT RUBRIC</b>				
	<b>Exemplary</b>	<b>Proficient</b>	<b>Beginning</b>	<b>Needs Improvement</b>
<b>Completion</b>	I responded to more than 7 reading prompts this summer.	I responded to 5-7 reading prompts this summer.	I responded to fewer than 5 reading prompts this summer.	I did not respond to any reading prompts this summer.
<b>Pacing</b>	I spent time working on my reading prompts this summer.	I usually worked on calendar reading prompts monthly.	I did not space out my calendar reading prompts weekly over the summer.	I did not respond to any reading prompts this summer.
<b>Quality &amp; Neatness of Work</b>	I kept a notebook; my handwriting is very neat; if I included a picture, it is carefully and neatly done and entirely matches the text.	I kept a notebook; my handwriting is legible; if I included a picture, it is nicely done and matches my text.	I did not keep a notebook; my work was done on scratch paper; my handwriting is barely legible; if I included a picture, it is a bit rushed and does not entirely match the text	I did not respond to any reading prompts this summer.
<b>Ideas and Content</b>	I was able to respond to all of the reading prompts; I provided great details to support my opinion; my thoughts were narrow and to the topic.	I was able to respond to most of the reading prompts; I included some details to support my opinion; my thoughts were a bit generic.	I was not sure how to respond to most of the reading prompts; I didn't have many details to my answer; my thoughts were repetitive.	I did not respond to any reading prompts this summer.

<b>Suggested Reading List - Math</b>	
<b>Author</b>	<b>Title</b>
Aker, Suzanne.	What Comes in 2's, 3's, and 4's?
Angelou, Maya.	My Painted House, My Friendly Chicken and Me.
Anno, Mitsumasa.	Anno's Counting Book. Anno's Counting House.
Baer, Edith.	This Is the Way We Eat Our Lunch.
Bang, Molly.	Ten, Nine, Eight. (Available in Spanish)
Barton, Byron.	Building a House.
Bogart, Jo Ellen.	Ten for Dinner.
Briggs, Raymond.	Jim and the Beanstalk.
Burningham, John.	Would You Rather...
Burns, Marilyn.	The Greedy Triangle.
Carle, Eric.	Rooster's Off to See the World.
Cooper, Jason.	Skyscrapers: Man-Made Wonders.
Crews, Donald.	Ten Black Dots. (Available in Spanish)
Crosbie, Michael and Rosenthal, Steve.	Architecture, Shapes.
Dale, Penny.	Ten in Bed.
DeRubertis, Barbara.	Count on Pablo. (Math Matters Series.)
Dorros, Arthur.	This Is My House.
Duke, Kate.	Twenty is Too Many.
Ehlert, Louise.	Fish Eyes.
Emberley, Rebecca.	My Numbers Mis Numeros.
Falwell, Cathryn.	Feast for Ten.
Felix, Monique.	The House.
Friedman, Aileen.	Cloak for the Dreamer.
Gauch, Patricia Lee.	Christina Katerina and the Box.
Grossman, Bill.	My Little Sister Ate One Hare.
Grossman, Virginia and Sylvia Long.	Ten Little Rabbits.
Hamm, Diane Johnson.	How Many Feet in the Bed?
Harris, Trudy.	100 Days of School.
Hoban, Tana.	Cubes, Cones, Cylinders, & Spheres; Shapes, Shapes, Shapes.
Jonas, Ann.	Splash; The Quilt.
Karavasil, Josephine.	Houses and Homes Around the World.
Kassirer, Sue.	What's Next, Nina? (Math Matters Series.)
Kushkin, Karla.	The Philharmonic Gets Dressed.
Lionni, Leo.	Inch by Inch.
Lobel, Arnold.	"A Lost Button," in Frog and Toad Are Friends.
McBratney, Sam.	Guess How Much I Love You.
Merriam, Eve.	12 Ways to Get to 11.
Metropolitan Museum of Art.	Museum Shapes.
Micklethwait, Lucy.	I Spy Two Eyes: Numbers in Art.
Mora, Pat.	Uno, Dos, Tres, One, Two, Three.
Morris, Ann.	Houses and Homes.
Murphy, Stuart J.	Animals on Board. The Best Vacation Ever. Super Sand Castle Saturday.
Onyefulu, Ifeoma.	Emeka's Gift: An African Counting Story.
Paul, Ann Whitford.	Eight Hands Round: A Patchwork Alphabet.
Peek, Merle.	Roll Over! A Counting Song.



<b>Suggested Reading List - Literacy</b>	
<b>Author</b>	<b>Title</b>
Berenstain, Stan	Bears in the Night
Hamsa, Bobby	Fast Draw Freddie
Peek, Merle	Mary Wore Her Red Dress
Mercer, Mayer	Oops!
Crews, Donald	School Bus
Tafari, Nancy	Spots, Feathers, and Curly Tails
Matthias, Catherine	Too Many Balloons
Carle, Eric	What's for Lunch