

## Summer Math & Literacy Practice Getting Ready for Grade 3



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 Grade 2, instructional time in math focused on four critical areas:**

1. Extending understanding of base ten notation (place value)
2. Building fluency with addition/subtraction
3. Using standard units of measure
4. Describing and analyzing shapes

### **In Grade 2, instructional time in Literacy focused on:**

1. Developing strategies to support independent reading comprehension, fluency, and accuracy
2. Engaging in the writing process using the 6+1 traits
3. Strengthening and widening vocabulary and word knowledge

Just a few minutes each day spent thinking and talking 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:

- Encourage your child to use pictures and decoding strategies to help identify unknown words.
- Match one-to-one (pointing to a word while saying it) consistently.
- Re-read familiar books to help build fluency.
- Encourage your 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.
- Help connect the reading to your child's life or other books that they've read.
- Echo read a text to help with fluency and comprehension.

While they are writing, help them to:

- Practice sounding out words they want to say phonetically.
- Enrich their writing with details and strong vocabulary.
- Encourage your student to review their writing and make appropriate changes.

### 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?

#### **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?

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





**SUMMER MATH HOMEWORK SELF-ASSESSMENT RUBRIC**

	<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 &amp; 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.

**SUMMER LITERACY HOMEWORK SELF-ASSESSMENT RUBRIC**

	<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>
Sayre, April Pulley	One Is a Snail, Ten Is a Crab: A Counting by Feet Book
Viorst, Judith	Alexander, Who Used to Be Rich Last Sunday
Hopkins, Lee Bennett	Marvelous Math: A Book of Poems
Zaslavsky, Claudia	Math Games and Activities from Around the World
Axelrod, Amy	Pigs Will Be Pigs: Fun with Math and Money
Burns, Marilyn	The \$1.00 Word Riddle Book The Greedy Triangle Spaghetti and Meatballs for All!: A Mathematical Story
Friedman, Aileen	The King's Commissioners
Adler, David A.	How Tall, How Short, How Far Away
Briggs, Raymond	Jim and the Beanstalk
Leedy, Loreen	Measuring Penny Fraction Action
Myller, Rolf	How Big Is a Foot?
Giganti, Paul Jr.	Each Orange Had 8 Slices
Hong, Lily Toy	Two of Everything: A Chinese Folktale
Pinczes, Elinor J	One Hundred Hungry Ants
Anno, Mitsumasa	Anno's Math Games Anno's Magic Seeds
Hutchins, Pat	The Doorbell Rang
McMillan, Bruce	Eating Fractions
McKissack, Patricia C	A Million Fish ... More or Less
Nolan, Helen	How Much, How Many, How Far, How Heavy, How Long, How Tall is 1,000?
Wells, Robert E	Counting on Frank Is a Blue Whale the Biggest Thing There Is? What's Smaller Than a Pygmy Shrew?

<b>Suggested Reading List - Literacy</b>	
<b>Author</b>	<b>Title</b>
Archer, Dosh	Urgency Emergency! Itsy Bitsy Spider
Brown, Monica	Lola Levine Is Not Mean!
Clanton, Ben	Narwhal: Unicorn of The Sea
DeFelice, Cynthia	Fort
DiCamillo, Kate	Where Are You Going, Baby Lincoln?
Duffy, Chris	Fable Comics
Grimes, Nikki	Garvey's Choice
Klassen, John	We Found A Hat!
McClure, Nikki	Waiting for High Tide
Oh, Ellen	Flying Lessons and Other Stories
Sturm, James	Ape and Armadillo Take Over the World
Sullivan, Mary	Treat
Wenzel, Brandon	They All Saw A Cat
Willems, Mo	We Are Growing
Yamada, Kobi	What Do You Do with A Problem?