

Summer Math & Literacy Practice Getting Ready for KG5

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 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 optional summer activities will enable your child to review concepts and reinforce skills learned during the past school year.

In KG4, instructional time in math focused on two critical areas:

1. Developing an understanding of whole numbers to 10, including concepts of one-to-one correspondence, counting, cardinality (the number of items in a set), and comparison.
2. Recognizing two-dimensional shapes, describing spatial relationships, and sorting and classifying objects by one or more attributes. Relatively, more learning time should be devoted to developing children's sense of number as quantity than to other mathematics topics.

In KG4, instructional time in Literacy focused on:

1. Hearing and representing consonant sounds at the beginning and ends of words accurately.
2. Establishing relationships between print and pictures and communicating this meaning through drawings and letters.
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 responding to weekly literacy prompts. Additionally, you should be reading with your child at least 20 minutes per day.

Wishing you a safe and restful summer! Looking forward to seeing you back here on August 29, 2018!

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:

Choose books that have pictures and predictable text. While reading to them you should:

- Identify high-frequency words (e.g., the, I, in, he).
- Model expressive and fluent reading when you read aloud.
- Match one-to-one (pointing to a word while saying it) consistently.
- Re-read familiar books to help build fluency.
- 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?

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!

JULY MATH PRACTICE

	Monday	Tuesday	Wednesday	Thursday	Friday	
1	2) Today is July 2nd. What will be tomorrow's date?	3) Trace your hand with a pencil. 	4) Name two things bigger than a car. Name two things smaller than a car.	5) Write your first name.	6) Count by ones to ten.	7
Literacy Prompt week of July 2: Draw a picture of a food you like to eat during the summer.						
8	9) Count the windows in your home (or wherever you are staying). What shape are they?	10) Set the table for dinner. Count the knives and forks.	11) Name four things taller than you. Name four things shorter than you.	12) Put your left hand on your stomach. Put your right hand on your head. What is something to the right of the building you are in? To the left?	13) Write the numbers one to three.	14
Literacy Prompt week of July 9: Draw a picture of what you like to do at the beach.						
15	16) Go for a walk then draw a picture of five things you remember seeing.	17) Count the steps from your front door to the back door.	18) Practice saying your phone number.	19) Do ten hops on each foot? Can you do more?	20) Put your hand <u>above</u> , <u>behind</u> , and <u>under</u> a chair. Say each word as you do it. 	21
Literacy Prompt week of July 16: What is your favorite book to read with your Mom or Dad? Draw a picture.						
22	23) Show the numbers 1 to 10 using coins, buttons, or cereal, etc.	24) Draw a circle, square, triangle, and rectangle. Color them neatly.	25) Touch your right foot with your left hand. Touch your left foot with your right hand.	26) Build shapes using toothpicks and marshmallows.	27) Find 5 items. Show two different ways to split them into groups. How many are in each group?	28
Literacy Prompt week of July 23: If I were an animal, I would like to be a: _____ . Draw a picture.						
29	30) Practice saying the days of the week.	31) Count the number of people in your family.		Fun Websites to explore: https://www.funbrain.com/ https://www.nctm.org/illuminations/ http://playkidsgames.com/ http://figurethis.nctm.org/ https://www.coolmath4kids.com/		

AUGUST MATH PRACTICE

	Monday	Tuesday	Wednesday	Thursday	Friday	
			1) Jump up and down ten times.	2) Count the letters of your first and last name	3) Sort objects by color such as, m&m's, skittles, fruit loops, buttons, Legos, etc.	4

Literacy Prompt week of July 30: List three things you need if it is raining. Draw a picture.

5	6) Count by twos using pairs of socks.	7) Say the days of the week.	8) Circle the picture that shows fewer than 10. ●●●●● ●●●●●●●●	9) Practice bouncing a ball for ten seconds.	10) Touch your right hand to your left knee five times. Touch your left hand to your right knee five times.	11
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Literacy Prompt week of August 6: What is your favorite summer activity? Draw a picture.

12	13) Name five items that begin the same way (with the same sound) as sun.	14) How many days until school begins?	15) Count to 20.	16) Draw a group of balls that has 1 more than 2.	17) Draw a group of balls that has 3 fewer than 5.	18
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Literacy Prompt week of August 13: When I grow up I want to be a _____ . Draw a picture.

19	20) Draw dots to show 10.	21) Circle the third gummy bear below. 	22) Danny sees 5 ladybugs. 2 ladybugs leave. How many ladybugs are still there? 	23) Circle the object to the left. 	24) Circle the number that is out of order. 0 1 3 2	25
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Literacy Prompt week of August 20: I like cats/dogs better. Draw a picture of what you like to do with cats/dogs.

26	27) Draw 3 balls and 2 pencils.	28) How high can you count? Practice counting items around your house.	29) Find five items that are red.	30) Play the game I Spy with shapes! (example: I SPY something that is round and has 2 hands).	31) Read a book about math. (There is great list attached to this calendar.)	
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Literacy Prompt week of August 27: In KG 5 I will learn: _____ . Draw a picture of what you will look like.

SUMMER MATH HOMEWORK SELF-ASSESSMENT RUBRIC				
	Exemplary	Proficient	Beginning	Needs Improvement
Completion	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.
Pacing	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.
Quality and Neatness of Work	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.
Accuracy	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				
	Exemplary	Proficient	Beginning	Needs Improvement
Completion	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.
Pacing	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.
Quality & Neatness of Work	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.
Ideas and Content	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.

Suggested Reading List - Math	
Author	Title
Aber, Linda Williams.	Grandma's Button Box (Math Matters Series.)
Angelou, Maya.	My Painted House, My Friendly Chicken, and Me
Anno, Mitsumasa.	Anno's Counting Book
Baer, Edith.	This is the Way We Eat Our Lunch
Bang, Molly.	Ten, Nine, Eight
Burns, Marilyn.	The Greedy Triangle
Chocolate, Debbi.	Kente Colors
Crews, Donald.	Ten Black Dots (Available in Spanish)
Dale, Penny.	Ten in Bed
Deitz Shea,	Pegi
Cynthia Weill and Pahn Viet-Dinh.	Ten Mice for Tet!
Dodds, Dayle Ann.	The Shape of Things
Dunbar, Joyce.	Ten Little Mice
Ehlert, Lois.	Color Zoo
Ehlert, Louise.	Fish Eyes
Emberley, Rebecca.	My Numbers/Mis Numeros
Falwell, Cathryn.	Feast for 10; Shape Space
Grossman, Virginia.	Ten Little Rabbits
Hoban, Tana.	Count and See; Shapes, Shapes, Shapes
Keenan, Sheila.	More or Less a Mess
Krebs, Laurie.	We All Went on Safari: A Counting Journey Through Tanzania
Harris, Trudy.	Pattern Bugs; Pattern Fish
Lionni, Leo.	A Busy Year; Inch by Inch
Martin, Bill.	Chicka Chicka 1, 2, 3
Martin, Jr. Bill, and John Archambault.	Chicka Chicka Boom Boom
Mora, Pat.	Uno, Dos, Tres, One, Two, Three
Moss, Lloyd.	Zin! Zin! Zin! A Violin
Murphy, Stuart J.	Animals on Board; The Best Vacation Ever; Monster Musical Chairs
Peek, Merle.	Roll Over! A Counting Song
Pluckrose, Henry Arthur.	Math Counts: Sorting
Reid, Margarette S.	The Button Box
Rogers, Paul.	The Shapes Game
Roth, Susan L.	My Love for You All Year Round
Russo, Marasabina.	The Line Up Book
Sloat, Teri.	From One to One Hundred
Swinburne, Stephen R.	Lots and Lots of Zebra Stripes: Patterns in Nature
Turpin, Lorna.	The Sultan's Snakes
Walsh, Ellen Stoll.	Mouse Count
Walton, Rick.	How Many, How Many, How Many
Wormell, Christopher.	Teeth, Tails & Tentacles: An Animal Counting Book



Suggested Reading List - Literacy	
Author	Title
Asch, Frank	The Lending Zoo
Atteberry, Kevan	Puddles!!!
Cabrera, Jane	Baa Baa Black Sheep
Elmquist, Laurie	Beach Baby
Goetz, Steve	Old MacDonald Had a Truck
Henkes, Kevin	Egg
Hunter, Anne	Cricket Song
Lawson, JonArno	Sidewalk Flowers
Murray, Diana	City Shapes
Tarpley, Todd	Beep! Beep! Go to Sleep
Teckentrup, Britta	Tree: A Peek-Through Picture Book
Tullet, Herve	Let's Play!
Wan, Joyce	The Whale in My Swimming Pool