Summer Math & Literacy Practice
Getting Ready for 2nd Grade

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 1, instructional time in math focused on four critical areas:

1. Develop strategies for adding and subtracting whole numbers
2. Develop understanding of whole number relationships and place value for 10's and 1's
3. Develop understanding of linear measurements and measuring lengths as iterating units of length
4. Develop understanding of reasoning about attributes of and composing and decomposing geometric shapes

In Grade 1, 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 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!

11 Kassos Street
P.O. Box 23847
1686 Nicosia, Cyprus

T: +357 22 316345
F: +357 22 316549

E: aisc@aisc.ac.cy

www.aisc.ac.cy

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, in, I, 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 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.

While they are writing, help them to:

- Practice sounding out words they want to say phonetically.
- Put finger spaces between words on a page.
- Enrich their writing with details and strong vocabulary.
- 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 Calendar

JULY MATH PRACTICE

	Monday	Tuesday	Wednesday	Thursday	Friday	
1	**2)** If Mary has 18 cents and Jacob has 2 cents, how much money do they have together? What is another way to make 20 cents? (15 and 5, etc.) Record your thinking.	**3)** If you save two cents (or two of your local currency) every day in the month of June, how much money will you have saved at the end of the month? Draw a picture or equation to show your thinking.	**4)** Sort the laundry into categories (owner, color, item type (pants/shirt). Make a bar graph and compare the categories. If by owner: Who has more clothes? Who has less? If by color: Who has more ___ colored clothes? Record your graph.	**5)** Go on a Shape Hunt around your home. Look for items shaped like a square, rectangle, and a triangle. Draw and label the items. These are all 2D shapes. Do you remember any 3D shapes? Hint: a cylinder is one but there are more!	**6)** Blow a marble, a bottle cap and a pencil across a table or 3 similar objects. Measure using inches, cm, or pennies how far they go. Which goes the farthest? By how much? Why do you think they went different distances?	**7**
Literacy Prompt week of July 2: Pick one of the following and make a list or a short story about things to do if you are a: princess, football player, tiger, pencil.						
8	**9)** Add 10 to the following numbers. (18, 37, 40, 79) What do you notice? What changes? The ones or tens? Show your work.	**10)** Write down all of the doubles you know. (2+2=4, 8 +8 = 16, etc.) Try and learn two more if you don't know all of them 0 to 10.	**11)** Terique has 57 video games and his friend has 20 less than Terique. How many video games does his friend have? Show your work and write an equation. What if his friend had 10 more?	**12)** Roll two dice. Practice addition and subtraction by adding or subtracting the two numbers. If you don't have dice, have an adult give you two numbers at a time to add or subtract! Show your work.	**13)** Are the equations "true" or "false"? Explain. Work them out to be sure! 3+4+2=4+5 5+3=8+1 Can you think of your own?	**14**
Literacy Prompt week of July 9: Recipe for a summer poem: One teaspoon of_____, one cup of_____, two gallons of_____, etc. Illustrate your recipe.						
15	**16)** List of numbers: 1 5 10 50 100. Include the numbers below with the group above so all numbers will be listed in order from least to greatest. 49, 7, 22, 98, and 3 For example, put the 3 after the 1.	**17)** Write the number made by the tens and ones listed: 2 tens and 3 ones = 23 5 ones and 8 tens; 1 ten and 0 ones; 3 tens and 3 ones. Can you make your own?	**18)** Start with the following numbers: 24, 66, 11, 30, and count by 10's to 100. Record your answers for each number. For example, if I started with 72: 72, 82, 92, 102	**19)** Do the following equations. Can you do them on a number line? 40 + 80 = 30 + 50 = 23 + 60 = Record your work.	**20)** I went to the park and I saw 18 rabbits playing in the grass. When I came back from lunch I only saw 10 rabbits. How many left while I ate lunch? Show your thinking with pictures and an equation.	**21**
Literacy Prompt week of July 16: Write about a character you read about in your book this week. What is special about this character?						
22	**23)** Tell the time that you go to bed to the closest hour or half hour. Draw a picture of the clock's hands for that hour. Can you draw it on a digital and analogue clock?	**24)** Jump rope and count by tens to 100. Try counting backwards. If you don't have a jump rope, just hop or jump and count by 10's. Can you count backwards by 10s from 100?	**25)** Today's number is 18 Make 18 by: -adding two numbers -subtracting two numbers -adding three numbers. Record your thinking. Now try it with the number 40.	**26)** Jahniya has 7 dolls, 20 necklaces, and 12 games. How many things does she have in all? Show your work.	**27)** 50 is the answer. What could the question be? Come up with 4 more equations. For example: 60-10=50	28
Literacy Prompt week of July 23: Under my bed- write a list or a short story about the items you might find under a bed. Be sure to draw a picture!						
29	**30)** Hold an ice cube in your hand. If it's too cold lay it on the sidewalk or a plate. Count by 2's until it melts. Did you count to more or less than 100? Why did it melt?	**31)** Read a book about math. (There is great list attached to this calendar.)		**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) Using a ruler, find 3 things longer than 12 inches and 3 things shorter than 12 inches. If you don't have a ruler, find a shoe and use that. Find 3 things longer and 3 things shorter than the shoe.	**2)** Ask 5 people their phone numbers. Add the digits of each phone number together. Whose phone number has the highest value? Show your work.	**3)** The number of the day is 78. Add ten. Subtract ten. How many ones? tens? Make 78 by adding 2 numbers. Make 78 by subtracting 2 numbers.	**4**
Literacy Prompt week of July 30: My favorite summer food is: Write about your favorite summer food and why!						
5	**6)** Some 3D shapes are cylinders, cubes, spheres, cones, and pyramids. Use play-dough, dirt, sticks, paper, etc. to make one or more of the shapes. Write about what you did.	**7)** Write down the time you eat dinner to the nearest half hour for each day this week. Ex: 6:30 or 5:00. Draw the time on an analogue AND digital clock. What day did you eat the earliest? latest? Record your work!	**8)** Go to the park or outside and draw the shapes you see. Do you see more rectangles than triangles? What are the attributes of triangles and rectangles? (how many sides, corners, etc.) Record your work.	**9)** If you bake 30 cookies and you want to give 10 cookies to each one of your friends, how many friends could you give 10 cookies to? Draw a picture to help you figure it out or make some cookies and try it!	**10)** Start at your front door and walk to the stove. Record how many steps it took. Start at your front door and walk to the bathroom and record how many steps it took. Which took more? How much more? (Try giant steps) Record your thinking.	**11**
Literacy Prompt week of August 6: I do/do not like the beach because…. Write about this and draw a picture.						
12	**13)** Jason mows lawns for money. He gets $5 for each yard he mows. If he mows 6 yards how much money would he have? What if he got $10 for each yard? Draw a picture to help you!	**14)** Use a number line to record how you would count by 10's from 55 to 95. Remember your 1st number should be 55 not 0 or 1. Show your work.	**15)** Write a story problem to go with 6 + 8. Now write a subtraction problem for 14 – 6. Draw pictures to go with both! (Plan to read a math book next week.)	**16)** Circle the number that is greater out of each pair. How do you know? Record your work. 78 or 87 32 or 12 50 or 5 87 or 54	**17)** Ask 10 people their favorite food. Record your data in a chart or graph. Compare the results by looking at your data. Did anyone like the same foods? more or less of a food than another?	**18**
Literacy Prompt week of August 13: What is better- a rainy day or a sunny day? Explain and draw a picture.						
19	**20)** Estimate how many pieces of cereal are in 1⁄4 cup. Count the pieces. Now estimate how many 1⁄4 cups fill in your cereal bowl. Check.	**21)** Use these numbers in a story problem: **18, 9, 9** Ask an adult to solve your story problem. Remember you can add, subtract, or both! Record your work!	**22)** Jason has 75 red and blue fish. If 20 are red how many are blue? Show your work with an equation and pictures.	**23)** Make up a challenge word problem for your mom, dad, sister, brother, neighbor, or friend!	**24)** Annie collects marbles. She has 5 pink marbles, 4 red marbles and 6 green marbles. How many marbles does she have in all?	**25**
Literacy Prompt week of August 20: Next summer you should really go to: explain one place you love to go in the summer and why.						
26	**27)** 7 children watch a parade. Then 4 children walk away. How many children are still watching the parade?	**28)** How many squares are in a 4 by 4 square? What equation could you write for this?	**29)** How many different ways can you cut a sandwich into fourths? Try it with real or paper sandwiches. Record your work with drawings!	**30)** Jump 3 times: once like a bunny, once like a frog, and once like a child. Measure each jump. Which was the longest? Shortest? What is the difference?	**31)** Read a book about math. (There is great list attached to this calendar.)	
Literacy Prompt week of August 27: One thing I am hoping to learn next year is:						

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**
Adams, Barbara Johnston.	The Go-Around Dollar
Axelrod, Amy.	Pigs Will Be Pigs
Barabas, Kathy.	Let's Find Out About Money
Baer, Edith.	This Is the Way We Go to School
Burns, Marilyn.	The Greedy Triangle
Burningham, John.	Would You Rather?
Clement, Rod.	Counting on Frank
Crampton, William G.	Flag. Eyewitness Guides
Cribb, Joe. Money.	Eyewitness Guides
Cristaldi, Kathryn.	Even Steven and Odd Todd
DeRubertis, Barbara.	A Collection for Kate Count on Pablo. (Math Matters Series)
DeRubertis, Barbara.	Deena's Lucky Penny. (Math Matters Series)
Emberley, Ed.	Ed Emberley's Picture Pie: A Circle Drawing Book
Friedman, Aileen.	A Cloak for the Dreamer The King's Commissioners
Giganti, Paul Jr.	How Many Snails?
Grossman, Bill.	My Little Sister Ate One Hare
Hamm, Diane Johnson.	How Many Feet in the Bed?
Harper, Dan.	Telling Time with Big Mama Cat
Haskins, Jim.	Count Your Way Through Japan
Hoban, Tana.	26 Letters and 99 Cents Shapes, Shapes, Shapes
Holtzman, Caren.	A Quarter from the Tooth Fairy
Hong, Lily Toy.	Two of Everything
Hulme, Joy N.	Sea Sums
Hutchins, Pat.	Clocks and More Clocks The Doorbell Rang
Jenkins, Steve.	Biggest, Strongest, Fastest
Jocelyn, Marthe.	Hannah's Collection
Jonas, Ann.	Splash
Jones, Carol.	What's the Time, Mr. Wolf
Kaczman, James.	When a Line Bends...A Shape Begins
Kassirer, Sue.	What's Next, Nina? (Math Matters Series)
Keenan, Sheila.	What Time Is It?
Leedy, Loreen.	Fraction Action; Measuring Penny
Lionni, Leo.	Inch by Inch
Llewellyn, Claire.	My First Book of Time
Long, Lynette.	Domino Addition
Mahy, Margaret.	17 Kings and 42 Elephants
McMillan, Bruce.	Eating Fractions
Merriam, Eve.	12 Ways to Get to 11
Murphy, Stuart J.	The Best Vacation Ever; Beep Beep, Vroom Vroom; A Fair Bear Share; Let's Fly a Kite. (Math Start Series); Super Sand Castle Saturday; The Penny Pot; Give Me Half!; Game Time!
Myller, Rolf.	How Big Is a Foot?
Neuschwander, Cindy.	Sir Cumference and the First Round Table
Ochiltree, Dianne.	Bart's Amazing Charts
Penner, Lucille Recht.	Clean-Sweep Campers. (Math Matters Series)
Pinczes, Elinor J.	One Hundred Hungry Ants

Pittman, Helena Clare.	Counting Jennie
Pluckrose, Henry.	Math Counts: Length; Math Counts: Shape; Math Counts: Time
Richards, Kitty.	It's About Time, Max! (Math Matters Series)
Rockwell, Anne F.	100 Days of School
Schlein, Miriam.	More Than One.
Schultz, Charles M.	How to Draw Peanuts
Schwartz, David M	If You Hopped Like a Frog.
Singer, Marilyn.	Nine O'Clock Lullaby.
Sloat, Teri.	From One to One Hundred
Sturges, Philemon.	Ten Flashing Fireflies
Tang, Greg.	The Grapes of Math Mathterpieces
Viorst, Judith.	Alexander Who Used to Be Rich Last Sunday
Walton, Rick.	Bunny Day: Telling Time from Breakfast to Bedtime
Watts, Barrie.	How They Grow Series
Wiesner, David.	Tuesday
Williams, Rozanne Lanczak.	The Coin Counting Book
Zimelman, Nathan.	How the Second Grade Got $8,205.50 to Visit the Statue of Liberty

Suggested Reading List - Literacy	
Author	**Title**
Shea, Bob	Ballet Cat: Dance! Dance! Underpants!
Willems, Mo	Cookie Fiasco
Engle, Margarita	Drum Dream Girl: How One Girl's Courage Changed Music
George, Callie	Duck, Duck, Dinosaur
Gray, Rita	Flowers Are Calling
Arnold, Ted	Fly Guy Presents: Castles
Boston, Carole	Freedom in Congo Square
Adler, David	Get A Hit, Mo!
Kuhlman, Evan	Hank's Big Day: The Story of a Bug
Sis, Peter	Ice Cream Summer
Curato, Mike	Little Elliot, Big Fun
Fan, Terry	The Night Gardener
Zietlow Miller, Pat	The Quickest Kid in Clarksville
Mantchev, Lisa	Strictly No Elephants
Alexander, Kwame	Surf's Up