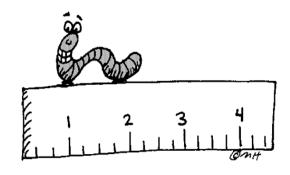
Summer Math Calendar Second Grade



Get ready to discover math all around you this summer! Just as teachers encourage students to continue reading throughout the summer to solidify and retain reading skills, we feel the same attention should be given to mathematics. Regular practice over the summer with problem solving, computation, and math facts will maintain and strengthen math gains made over the school year. The Math Specialists of Brookline have created this summer math calendar to provide your child and your family with a variety of math activities to explore this summer.

Inside you'll find creative activities that include measuring and counting everyday objects, math games, riddles, basic facts practice, math web sites and math literature books (available through Brookline's public libraries). The goal is for your child to have fun thinking and working collaboratively with you while communicating his/her mathematical ideas. While you are working on these activities, ask your child **how** he found that solution or **why** she chose that strategy. These activities help reinforce the concepts/skills your child learned this past year so that s/he can retain them over the summer.

This packet consists of 2 calendar pages, one for July and one for August, an alternate summer math calendar as well as directions for math games to be played at home. (Note: a substitute for numeral cards can be a regular deck of cards without the face cards or Uno cards.) Each month's activities are organized into 28 "math boxes." *You can choose which activities you'd like to complete on which day*. We encourage your child to complete 20 math boxes each month. After completing a box, color it in. In September return the calendar, with your signature, to your child's new teacher.

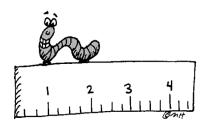
We recommend that you integrate an average of 15-20 minutes of math activities into your child's day, including completing the enclosed activities *and* reviewing basic facts. Number facts can be practiced and reinforced through repeated use in games, real-life problems, songs, rhymes, and cards. Help your child to identify "FACTS I KNOW" and the "FACTS I AM WORKING ON." Think of regular and convenient times to review these facts, such as waiting in line, driving in a car, riding the train, reading time, etc.

We hope that you will enjoy the activities, extend them, create new ones and have fun!

Public Schools of Brookline K-8 Mathematics Department



July Second Grade Calendar Brookline



Directions: Complete any 20 math boxes and color in the box after you complete it. Return the Math Calendar to school in the fall.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Blow a marble, a	0+1	Count backwards	Make a quart of	0+0	Read	Jump 3 times: once
bottle cap, and a	1+1	from 30 to 0.	lemonade. How many	1+0	•Anno's Magic Seeds	like a bunny, once
pencil across a table	2+1	Count backwards by	cups of water do you	2+0	by Anno Mitsumasa.	like a frog, and once
or the floor. Measure	3+1	10s from 80 to 0.	need? How many	3+0	How many seeds will	like a child. Measure
how far they go.	4+1 to 19+1	Count backwards by	tablespoons of mix do	4+0 to 20+0	Jack have at the end	each jump. Which
Which goes the	What patterns do you	5s from 40 to 0.	you need to make it	What patterns do you	of one year if he	was the longest?
farthest? By how	see? Why?		sweet enough?	see? Why are they	buried 7 seeds?	Shortest? What is the
much?	_		_	happening?		difference?
How many books do		Sort the laundry into	Play	What number comes		
you have?	Play a game.	categories (by owner,	Concentration on the	after 16? What	Play a game.	Get a pile of coins.
First, make an		by size, by color, by	web*	number comes before		Show all the ways to
estimate. Then count	Double Compare	item type).	with numbers 1-6.	30? What numbers	Tens Go Fish	make 15 cents. How
them. How close was	(see directions)	What do you observe	Record your matches.	come before and after	(see directions)	do you know you
your estimate?		about the piles?		57?		have them all?
Play	Estimate how many	Read	Read	6+6	How long does the	I have a machine that
Patch Tool on the	pieces of cereal are in	•Ten Black Dots by	•When a Line Bends	7+7	traffic light stay	adds 5 to every
web.*	¹ / ₄ cup. Count the	Donald Crews.	A Shape Begins by	8+8	green? Red? How	number I put in.
Choose 2 shapes.	pieces. Now estimate	Name different	Rhonda G. Greene.	9+9	could you measure	If I put in 4, what
Make a pattern.	how many 1/4 cups fill	objects that come in	How are a square and	10+10	this? How much	comes out?
Describe the pattern.	in your cereal bowl.	groups of 1, 2, 3, etc.	rectangle alike? How	What clues help you?	longer is 1 light than	If I put in 16, what
	Check.	Make your own book.	are they different?		the other?	comes out?
	Count by 2s to 50	7+7	I am 7 years old and	Ask someone at home	Play	5+5
Play a game.	starting at 12.	7+8	my sister is 11.	to time how long you	Bobbie Bear	4+6
	Count by 10s to 64,	8+8	Who is younger?	can hop on your right	on the web.*	3+7
Connect Four	starting at 4.	8+9	How much younger?	foot, then your left.	Choose: Customize	2+8
or	What did you notice	9+9	I have 16 stickers and	Which foot could you	How many outfits can	1+9
Dominoes	about the numbers	9+10	my sister has 9.	hop on longer? How	you make with 2	10+0
	you say?	What clues help you	Who has more? How	much longer?	shirts and 2 pants?	What clues help you?
		solve these problems?	many more?			

* Website Directions:	Go to: illuminations.nctm.org	Click on ACTIVITIES.	Click on K-2 and	press SEARCH.
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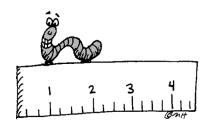
grade 1.July calendar.07

• Book is available through Brookline's public libraries or Minuteman library network (▼)

Parent's Signature:	Child's Name:	
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August Second Grade Calendar Brookline



grade 1.August calendar.07

Directions: Complete **any** 20 math boxes and color in the box after you complete it. Return the Math Calendar to school in the fall.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Play a game. Double Compare (see directions)	10-0 10-1 10-2 10-3 10-4 10-5 What patterns do you see? Why?	Make a calendar for this week. Record the temperature each day. At the end of the week, compare your weather with the weather in Phoenix. What do you notice?	A small pack of gum has 5 pieces. How many pieces of gum are in 3 packs? What about in 5 packs? In 7 packs?	Make a 3-D shape using mini marshmallows and toothpicks. How many corners does your shape have? How many edges?	The three numbers in my fact family are 7, 3 and 10. What are the 2 addition and 2 subtraction number sentences you can make using these numbers?	Play <i>Bobbie Bear</i> on the web.* <i>Choose: Customize</i> How many outfits can you make with 3 shirts and 3 pants?
Roll 2 dice together and add to find the sum. Record the sum. Do this 20 times. What sum did you get the most often? Why?	Play <i>Ten Frame</i> on the web.* Games: <i>Fill a Frame</i> Record all the number sentences with a sum of ten.	10+9 10+7 10+5 10+8 10+6 What pattern do you hear?	Read • Ten Red Apples by Pat Hutchins. What's the pattern? Write down the number equations for each page.	Make a list of 2D and 3D shapes. Go on a scavenger hunt to look for those shapes. Bring your list and check off the shapes you find.	Play a game. Connect Four or Dominoes	Listen to the whole string of numbers before answering: I had 4 shells. I got 2 more. I got 3 more. I lost 2. How many do I have?
6+3 7+3 8+3 9+3 10+3 11+3 What clues help you?	Create a repeating pattern with shapes, like ## * ## *. Ask a friend what the 9 th shape would be? the 10 th ? Have a friend make up a new pattern.	Play a game. Tens Go Fish (see directions)	Tell an adult an addition story problem to go with 4 +8. Now tell a subtraction story problem for 12 – 4.	Read • Quack and Count by Keith Baker. Name all the combinations to make 7. Complete this:++ = 7	17-10 16-10 15-10 14-10 13-10 12-10 What clues help you?	Line up 3 different figures or animals. Record the order. Now change the order. How many different ways can you line them up?
Read •Seven Blind Mice by Ed Young. Draw & color the 7 mice in a line in the order they approach the Something. Which mouse was 4 th ?	Hiding game Get 7 pennies. Put some in 1 hand and some in the other hand. Show 1 hand and have the adult figure out what's hiding. Switch roles. Play 10x.	Estimate the length of string you'd need to fit around a ball. Without measuring, cut the string that you think will work. Test your prediction. What did you notice?	Play <i>Concentration</i> on the web* with numbers 1-10. Record your matches by writing the digits with the words or pictures that match.	Make a tally chart of the number of fruits and vegetables you ate today at your meals and for snacks. Did you eat 5 servings? Try again tomorrow.	If I see 8 people, how many eyes can I see? If there are 30 toes under the table, how many people are sitting at the table?	Cut out grocery coupons that your family might use. Sort these coupons into different categories. What category has the most? The least?

* Website Directions: Go to: illuminations.nctm.org	Click on ACTIVITIES .	Click on K-2 and	press SEARCH.
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• Book is available through Brookline's public libraries or Minuteman library network (▼)

Parent's Signature:	Child's Name:	
Created by the Math Department, Public Schools of Brookline, 2007		

Double Compare Instructions

Materials: Deck of Number Cards

Players: 2

Object: Decide which of two sums is greater.

Note to families:

In this game, your child will be finding the totals of pairs of numbers. You

will need a set of

Number Cards to play

this game.

How to Play

1. Mix the cards and deal them evenly to each player. Place your stack of cards face down in front of you.

2. At the same time, both of you turn over the top two cards in your stack. Compare your cards to your partners to determine which sum is more. If your total is more than the other player's, say "Me!" If the two totals are the same, turn over the next two cards and compare these sums.

Sometimes you may be able to decide which pair is more without actually figuring out the total.

- **3.** Keep turning over two cards. Say "Me!" each time your total is more.
- **4.** The game is over when you have both turned over all the cards in your stack.

Variations

- ▶ Remove the 7-10 cards from the deck, and play with just the 0-6 cards.
- ▶ Play Compare. Players turn over one card on a turn. The player with the larger number says "Me!"
- Add the four wild cards to the deck. A wild card may be used as any number. Challenge students to use it for the lowest number that will allow them to win.
- ▶ Play Triple Compare. Players turn over three cards on a turn. The player with the larger total says "Me!"



Tens Go Fish

You need

- deck of Primary Number Cards (without Wild Cards)
- sheet of paper

Play with a partner.

- Each player is dealt 5 cards from the Primary Number Card deck.
- 2 Each player looks for pairs from his or her cards that make 10. Players put down the pairs of cards that make 10, and they draw new cards to replace them from the Primary Number Card deck.
- 3 Players take turns asking each other for a card that will make 10 with a card in their own hands.

If a player gets the card, he or she puts the pair down and picks a new card from the deck.

If a player does not get the card, the player must "Go fish" and pick a new card from the deck.

If the new card from the deck makes 10 with a card in the player's hand, he or she puts the pair of cards down and takes another card.

If a player runs out of cards, the player picks two new cards. A player's turn is over when no more pairs can be made that make 10.

- The game is over when there are no more cards.
- **5** At the end of the game, players record their combinations of 10.

Pearson Education 1

Unit 8 M35

Alternate Summer Math Calendar for Grade

If the activities suggested don't seem to "fit" your child, or if you have your own websites/literature/math practice you'd like to do, you can create-your-own math calendar. Feel free to substitute your own activities in this Alternate Summer Math Calendar or mix-and-match some of the grade-level activities with some other activities that better suit your needs or learning style. All we ask is that you document your created activities below. Remember: the goal is to complete 20 activities each month (so you may need an extra recording sheet).

No.	Date Completed	Description of Math Activity
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Child's name:	Parent signature:
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