



WELCOME  
KINDERGARTEN AND  
1<sup>ST</sup> GRADE PARENTS  
TO  
MAGNIFICENT MATH!

January 21, 2021

# Mastering Math in Kindergarten

During the second semester your child will be focusing on the following goals in Math.

- **Goal 1:** Students will be able to accurately count to 30 from any given number

example: **Starting at the number 15, count to 30.**

- **Goal 2:** Students will be able to write the numerals 0-20 and complete 1:1 correspondence.

example:  = 16

- **Goal 3:** Students will be able to accurately compose and decompose numbers 11-19 using tens and ones. Composing **numbers** refers to joining groups or a set of **numbers** to make another **number**, while **decomposing numbers means** to break **numbers** down to their component parts.

example: **13 is one group of 10 and 3 left over ones.**

- **Goal 4:** Students will be able to use simple shapes to make larger shapes

example:  (two squares will make a rectangle)

- **Goal 5:** Students will be able to fluently add and subtract within 5 preferably by subitizing.

What is **Subitizing**? **Subitizing** is the ability to instantly recognize “how many” in a small set. A perfect example of **subitizing** is dice; when you roll a dice and you see two dots on top, you instantly recognize it as representing a quantity of two. You don't need to count each dot on the dice to figure it out, right?



# Using your resources

Use the following suggestions with the resources sent home with your child to help them master the 5 Kindergarten goals!

## **Goal 1 – Using your number chart**

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

**I Can Count to 30** - Cover some of the numbers with the post it notes and have your child count up to thirty.



**Play Skittles Number I.D.** – Call out a number from one to 30. have your child cover that number with a skittle. Challenge your child to count to thirty from the number you selected.

# Helping your child master these goals!

- **Goal 2 – Know 1:1 correspondence**

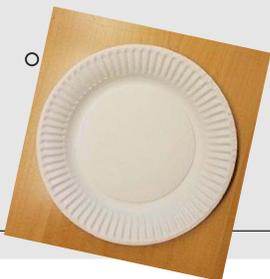
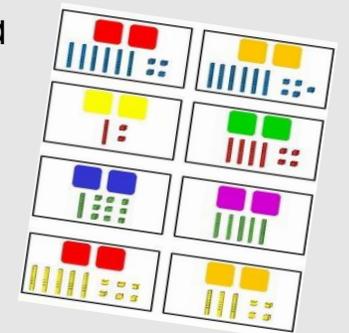
- **Number Match -** Cut your paper plates in half or cut in a zig zag. On one half of each paper plate, have your child write the numbers from 1 to 20. Use crayons or markers to make the corresponding number of dots on the other half. Turn them over and mix them up. Have your child match the number to the dots.



- **Goal 3 – Compose and Decompose**

- **11-19 Using tens and ones** – Use two paper plates (one for tens, the other for ones)

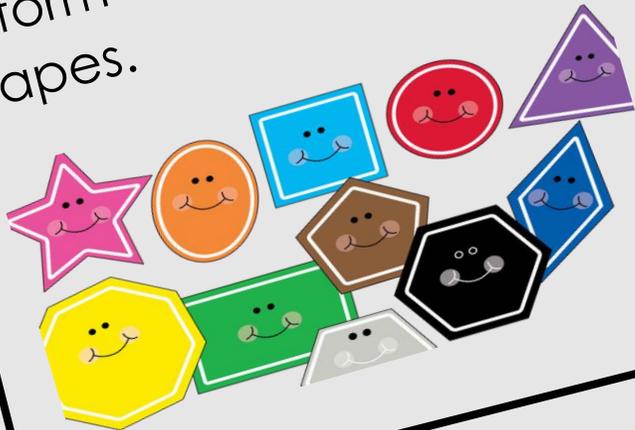
grab 19 beans, or pennies, whatever you have on hand, and give your child a number between 11 and 19. have them separate the number into tens and ones. For an extra challenge see if your child can tell you how many more to get to 20.



# Our Last Two Goals

## ◦ Goal 4: Simple Shapes

Use your marshmallows and toothpicks to make simple shapes. Put them together to form different or larger shapes.



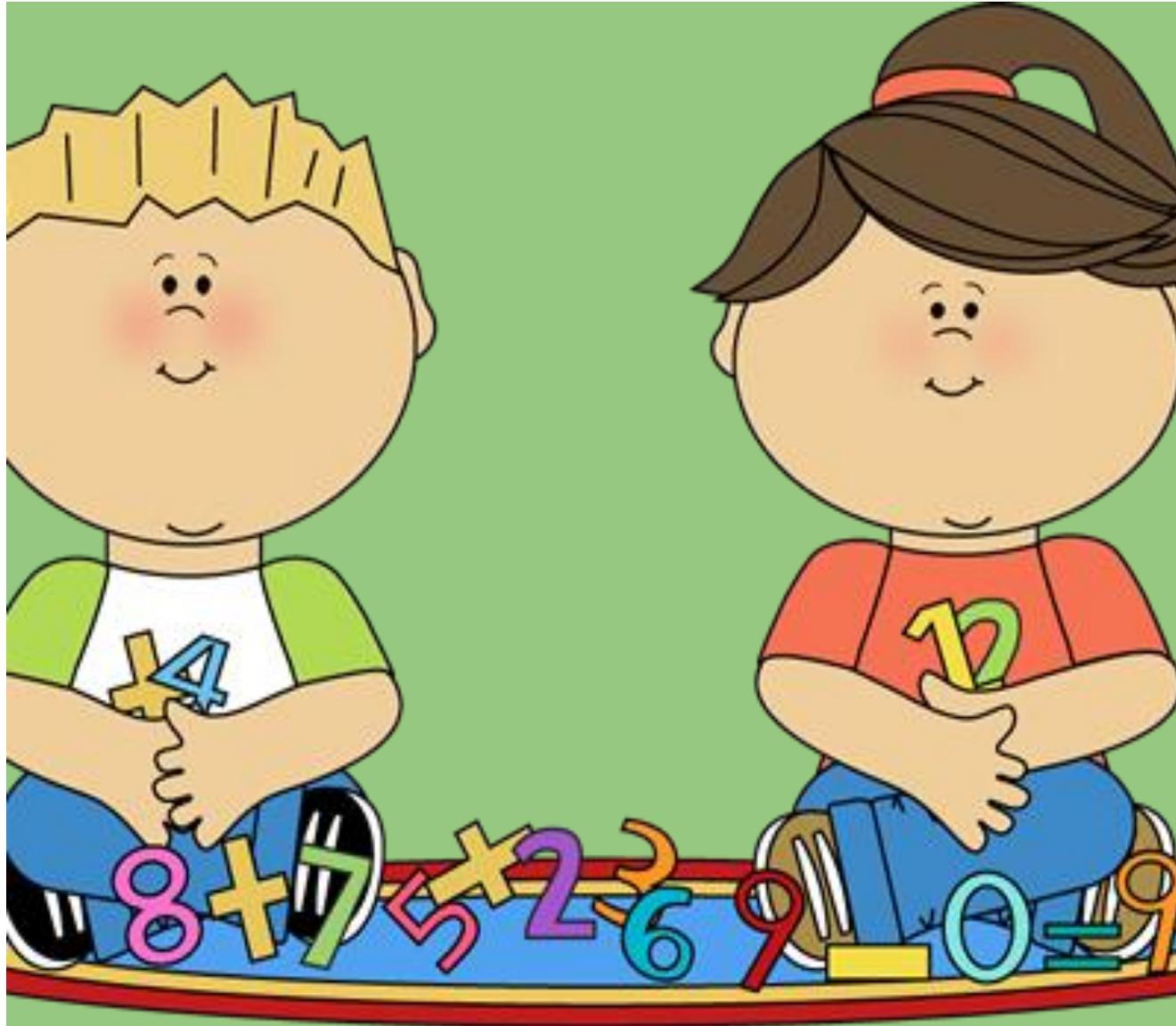
## Goal 5: Adding and subtracting within 5

Using the paint strip and counters (any small object), practice adding and subtracting within 5. Be sure to ask questions like “How many more do you need to make 5?”. Utilize words such as “less” and “one more”



# Other ways to support learning at home.

- Count when you and your child do everyday activities. The number of steps from the kitchen to the bedroom, count the number of items you remove from your child's backpack. Count the stuffed animals on the bed. Show your child how we use math EVERYDAY!
- Be on the lookout for geometric shapes. The playground or grocery store are good places to search for circles, squares and rectangles.
- Make a point to observe relationships or similarities and differences. Use words like more/less, above /below, taller shorter.



# 1<sup>st</sup> Grade Math!

In first grade, students focus on four critical areas:

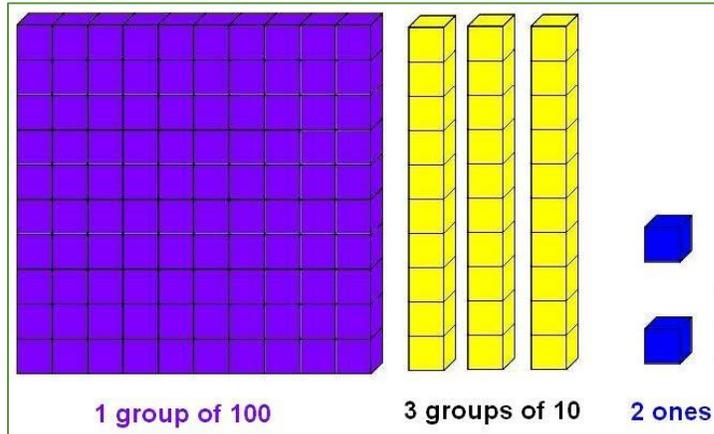
- (1) developing understanding of addition, subtraction, and strategies for addition and subtraction within 20;
- (2) developing understanding of whole number relationships and place value, including grouping in “tens and ones”;
- (3) developing understanding of linear measurement and measuring lengths as iterating length units
- (4) reasoning about attributes of, and composing and decomposing geometric shapes.

# Adding and Subtracting Within 20

- Your child will understand the connection between counting and addition and subtraction. They will use the strategy of “counting up” to understand addition. They will understand the subtraction strategy of “one less or two less”
- Your child will know the relationship between addition and subtraction  
(  $8+4=12$  then  $12-4=8$ )

## How you can help at home:

- Make up word problems to show your child how math is used everyday.  
Ex: I put 8 socks in the dryer but only 5 came out. How many are missing?
- Help your child use mental strategies for adding and subtracting within 20. Ask them to explain their reasoning. You will be fascinated!  
Ex: Counting up or one less.



## Helping at Home

Help your child understand that 10 can be thought of as a bundle of ten ones.

Help your child understand that two digit numbers are tens and ones.

Help your child understand that two digit numbers can be thought of as all ones or tens and ones.

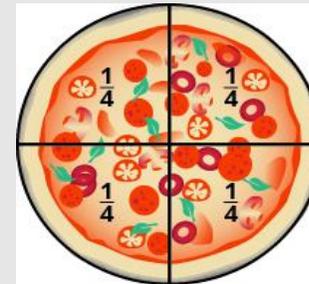
## Understanding whole number relationships and place value

Your child will develop efficient and accurate methods to add and subtract multiples of ten. They will think of whole numbers between 10 and 100 in terms of tens and ones. This is especially recognizable with the numbers 11 to 19, as they will see them as ten and some ones.

# Understanding Measurement and Geometric Shapes

- Your child will learn how to express the length of an object by using a specific set of units. (**Units** are the objects used to measure, like a paper clip or a post it note) By repeating the same unit (iterating) your child will measure length. When practicing at home remember these points:
- Start at the end of an object.
- Lay your units end to end, no gaps!
- Make sure you don't overlap the units either!
- Measure objects around your house. Remember not all objects will have exact measurements. It's ok to say "about" or "almost".
- Put objects in order shortest to longest or vice versa.

- In kindergarten students used shapes to form larger shapes, **in first grade** your child will build on that knowledge by being able to describe shapes by their attributes. (How many sides, how many vertices)
- They will be able to compose a new shapes in 2D or 3D
- They will be able to partition shapes (circles , rectangles) into equal parts like halves, fourths quarters.



# Using your Resources

- Look for everyday opportunities to have your child do math. Sorting and categorizing things around the house. Make up word problems, “ I have a dozen eggs and I need four for breakfast. How many are left?”
- Use your ten frame! Base ten is essential in developing critical thinking skills. (Mental Math)
- Practice writing your numbers all the way to 120. Once filled in, you can use the chart to help your child with addition and subtraction skills.
- Make and **USE** your strategies ring. Let your child show you which strategy they used and **WHY!**
- Use the math spinner with playing cards (ACE = 1 through 9) or the number cards provided to practice “One more/ Two less.
- Use straws or toothpick to explore place value. Give your child a two digit number and have the compose it into tens and ones.
- Use your Starburst to measure things around the house (A wooden Spoon, a pencil). How many units?

# On-line resources

use these on-line resources to help your child at home!

- **Math Site URL**

- Fun Brain <http://Funbrain.com>
- Math Blaster <http://Mathblaster.com>
- Multiplication.com <http://multiplication.com>
- Learn Zillion <http://LearnZillion.com>
- Hooda Math <http://HoodaMath.com>
- Manga High <http://mangahigh.com>
- Math Game Time <http://MathGameTime.com>
- Math Playground <http://MathPlayground.com>
- CryptoKids <http://www.nsa.gov/kids/home.shtml>
- BBC KS2 Bitesize <http://www.bbc.co.uk/schools/ks2bitesize/>
- Cool Math Games <http://www.coolmath-games.com/>
- PBS Learning <https://pbslearningmedia.org>



# THANKS FOR JOINING US!

Contact me with any questions or concerns: [jill.tyler@hcbe.net](mailto:jill.tyler@hcbe.net)