



Math Terms to Know {in primary grades}

Here are a group of terms and phrases you'll hear throughout the year. These five mathematical concepts (ten frame, subitizing, 120s chart, number sense, place value) are integrated throughout each unit we teach and are year-long skills we will hone.

Common Core

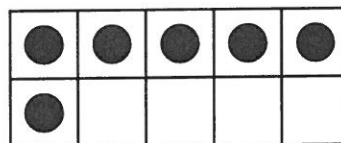
www.corestandards.org

The Common Core State Standards are expectations our state has adopted to provide a framework for teaching, answering the question - what should our students know by the end of the year? As a school, we use specific curriculum to guide the methods we use to teach the Common Core Standards.

Ten Frame

a structured way to work with numbers within 10

WHY? { Develops mental-math abilities and sets foundation for regrouping }



$$\underline{\quad} + 6 = 10$$

$$10 = 6 + \underline{\quad}$$

Subitizing

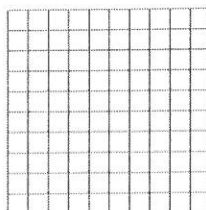
the ability to quickly identify the number of items in a small set without counting

WHY? { Subitizing helps students create a mental picture & builds number sense. }



120s Chart

a number line formatted so students can easily identify number patterns



{ Understanding the 120s Chart allows students to see patterns within number sequences, as well as, easily work with 10 more/less, 1 more/less. Creates automaticity with numbers. }

Number Sense

an understanding of number relationships that allows students to work mathematical problems without a traditional algorithm

WHY? { A solid understanding of numbers allows students to conceptualize numbers – What is 10 less/more? Which number is greater/less than? What happens if I double a number? What does a ten look like? }

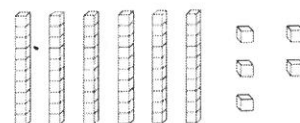
Place Value

numerical value of a digit based on its position

WHY? { Place value allows students to understand that 15 is not a “1” and a “5”; rather, it is a group of 10 and 5 ones. }

H	T	O
0	6	5

} 65



Building a Strong Mathematical Foundation at HOME



Counting

Count. Count again. Now count some more. Count ...the number of steps to the car. ...the number of forks on the table. ...the number of grapes on your plate. And, when you're ready, skip count by twos!



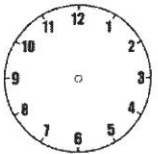
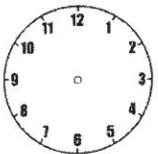
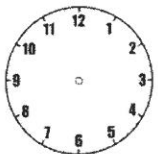
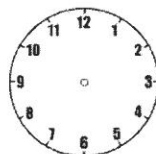
12-Month Calendar

Write down all the important dates: Your birthday. Your mom's birthday. Special holidays. Karate class. Now use it to figure out things like how many days before your trip to grandmas.



Analog Clock

What time do you get up? What time do you go to school? List your daily schedule. Use the clocks below to show the time of each listed item. Cut out and glue next to the appropriate item on the schedule.



Rulers and Tape Measures

Measure everything! How far can you jump? How long is the desk? How tall are you? How tall is the dog?



Coins

Collect coins in a jar. Sort them into groups. Discuss their names and values. Skip count by 1s (pennies), 5s (nickels) and 10s (dimes). Practice adding small amounts.



Time

About how long does it take you to... brush your teeth? ...drive to the store? ...jump up and down 10 times? Use a stopwatch to find out!

Shapes



Look around. Where do you see rectangles? Where do you see triangles? Build with blocks. Design with clay. Draw with paint.

Developing Number Sense at HOME

Here are 5 simple ways to seamlessly integrate number sense activities while driving in the car, cutting vegetables, waiting in the dentist's office...

1 What's the Question?

Give your kids the answer and have them come up with the problem. For example: *The answer is seven. What's the question?* Sample answer: *I had ten grapes and then I ate three. How many grapes are left?*

2 Who Am I?

Not only are these perfect for mental math practice but they're a great way to reinforce math vocabulary. Sample: *I am an even number greater than ten but less than twenty. The sum of my digits is nine. Who am I?*

3 Which Number Does Not Belong?

This is a pre-algebra activity where kids sort and classify numbers into categories. Example: *Which number does not belong: 4, 12, 17, 8, 20?* Answer: *The number '17' does not belong because it is an odd number (or...17 is not a multiple of 2).*

4 Which Has More?

A great mental math activity that gets kids to compare several quantities at the same time. Example: *Which has more, the number of wheels on two cars or the number of eggs in a dozen?*

5 And the Answer is...

For this activity, kids need to compute a series of quantities in their head. Example: Start with the number of days in a week. Subtract the number of wheels on a tricycle. Double that number. And the answer is...

