



Summer Mathematics Activities to Do at Home

Incoming Grade 3

Number Sense - Operations in Base 10

- Practice addition and subtraction facts
- Skip count when counting groups of nickels and dimes.
- Count in a pattern while doing a rhythmic or repeated task – stirring pancake batter, brushing hair, putting away groceries, walking.
- Roll two dice to make a two digit number. Subtract it from 99 or 100.
- Represent two digit numbers with popsicle sticks - make bundles of ten for the tens and use single sticks for the ones.
- Roll dice to make two or three digit numbers with a partner. See who can make the larger number.
- Add all of the digits of your house number together.
- Compare prices of various items (gas, toys, etc) to find the lowest amount.
- Make numbers or find numbers on labels and compare them.
- Find or roll numbers and write them in expanded form.
- Find or roll numbers and tell which place value each digit represents.

Operations and Algebraic Thinking

- Roll a set of dice and add them together.
- Roll 2-digit or 3-digit numbers and add them together.
- Add all the digits of your house number together.
- Make a train with Legos or colored blocks. Write a number sentence for the different colors in the train.
- Represent two digit numbers with popsicle sticks – make bundles of ten for the tens and use single sticks for the ones. Add the piles together.
- Use small items (counters, beans, small toys) to represent number sentences. Use index cards to make +, -, <, >, and = symbols. Show a number sentence with a missing element: $7 + \underline{\quad} = 12$. Have your student find the missing addend.
- Add the price of two items at a store.
- Compare gas prices to find the lowest amount.
- Roll a 2-digit number and subtract it from 99 or 100.

- Start with 100 counters (beans, pennies, etc.) and roll two dice to make a 2-digit number. Subtract counters until you get to 0.
- Give your child an addition or subtraction number sentence and ask them to make up a story problem to go with the number sentence.
- Look for items that are in repeated sets or groups – panes in a window, pickets on a fence, sodas in a six-pack, wheels on cars or bicycles.

Measurement

- Look at a TV guide and locate the time a favorite show starts. Have your child find that time on an analog clock.
- Estimate the lengths of various objects around the house, such as a table, a book, a toothbrush, etc. Next, Measure the same objects using a ruler with inches and centimeters to compare the estimate to the actual length.
- Measure the four sides of a square or rectangular table using inches, and then add the four sides together to find out how long the table is around.
- Measure two different book lengths using centimeters. Compare the two lengths and determine how much longer one book is than the other.
- Survey various family members about their favorite sport, color, ice cream flavor, or pizza topping. Create a bar graph to show the data.

Geometry

- Look for 2-D and 3-D shapes around your house and community.
- Compare 2-D and 3-D shapes. Look for the 2-D shapes that make up the 3-D shapes.
- Talk about the shapes of foods that are eaten. For example, oranges are spheres.
- Talk about the shapes of containers in stores. For example, cans are cylinders and boxes are rectangular prisms or cubes.

Suggested Websites:

<http://www.multiplication.com/games>

This website has arcade style practice for basic math operations including +, -, x and ÷. Great for fact fluency!

<https://www.khanacademy.org/math>

This website can be used to learn, practice, or review math concepts by grade through video clips and questions.

<https://www.prodigygame.com/Play/>

This website practices math in an anime style. An initial assessment will determine which skills need practice and which skills are mastered. The program will individualize practice problems and level students based on their success.

<https://www.ixl.com/math/>

On IXL, math is more than just numbers. With unlimited questions, engaging item types, and real-world scenarios, IXL helps learners experience math at its most mesmerizing!

<https://www.aaamath.com/>

AAA Math features a comprehensive set of thousands of interactive arithmetic lessons.