Nature Ninja!

You are a superhero – your name is **Nature Ninja!** You love to be outdoors and are always most powerful when you're playing outside.

Task 1:

Since we don't have beautiful flowers outside just yet, you'll be making some to display in the windows for now. Draw big colorful blooms using finger paints, markers, or crayons. Then make a really long green stem for each flower. You will need **a lot** of leaves to put on your stems! Have an older sibling, or adult write a number in the middle of each flower.

Your job will be to create the leaves for each flower. In K, you could show dots, or write the number word. In Gr.1 &2 write addition or subtraction facts that match up with your number.

Task 2:

If it's a nice day and you're outside, why not play Simon Says, "Geometry!" or Simon Says, "Count!" You play like regular Simon Says except for the geometry version you have to use your hands and arms to show shapes, like a circle, square, rectangle, triangle, oval, or diamond.

For the counting version, you might have to count forwards or backwards by ones between two given numbers, or maybe even count by twos, fives or tens!

Task 3:

Estimation Fun – Estimate how many steps it would take for you to get from one side of your driveway to the other. Walk across your driveway, counting your steps. How close was your estimate? Try this activity again in different areas, such as your lawn, back-yard, etc.

https://www.mathgames.com/play/math-dash-ninjas.html

Press Play to start, then select your grade level.
Next, click on Skills to pick a topic.

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Since we don't have beautiful flowers outside just yet, you'll be making some to display in the windows for now. Draw big colorful blooms using finger paints, markers, or crayons. Then make a really long green stem for each flower. You will need **a lot** of leaves to put on your stems! Have an older sibling, or adult write a number in the middle of each flower.

Your job will be to create the leaves for each flower. You could write either addition, subtraction, multiplication, or division facts that match up with your number.

Challenge: Write one of each - your number must be the sum, difference, product and quotient for the math sentence!

Task 2:

If it's a nice day and you're outside, why not play Simon Says, "Geometry!" or Simon Says, "Count!" You play like regular Simon Says except for the geometry version you have to use your hands and arms to show shapes, like a circle, square, rectangle, triangle, oval, or diamond. Or, maybe show parallel and perpendicular lines, or angle measurements – acute, right, obtuse.

For the counting version, you might have to practice multiplication facts by skip counting by any number 2 through 9.

Task 3:

Estimation Fun – You will need a clear jar. Find some pebbles outside, and place five of them in the bottom of your jar. Estimate how many pebbles you will need to fill the jar. Find enough pebbles (around the same size) and fill your jar. How close was your estimate? You can try this activity inside also, with materials such as candy or macaroni.

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Middle School Challenge

Task 1: Math in the World

Using and understanding formulas is a critical skill in almost every field, including science, engineering and business. Below are two formulas used in medicine.

Body surface area (BSA), is a measure of the skin's total area. BSA is used by doctors, pharmacologists, and other clinicians to determine the proper dosage of medications. The formula gives approximate BSA in square meters.

$$BSA = \frac{\sqrt{W \bullet H}}{60} \quad \text{where W = weight in kg and H = height in cm}$$

Some doctors use Body Mass Index (BMI), as a health risk indicator. A BMI between 18.5 and 24.9 is considered to be in the normal range.

$$BMI = \frac{W}{H^2} \quad \text{where W = weight in kg and H = height in m}$$

Use the formulas given to calculate the BSA and BMI for yourself, and your family.

Task 2: Family Game Night

Play games that involve strategy. Such as Chess, Dominoes, Checkers, Monopoly, Blokus and Quirkle. Or, card games like Hearts, Rummy, and Cribbage.

Task 3: Websites (game and review)

Following link is to a game site for skills practice – Math Dash Ninjas is game selected, but there are several to choose from. Press Play to start, then select your grade level. Next, click on Skills to pick a topic.
https://www.mathgames.com/play/math-dash-ninjas.html

Next site is normally a purchase, but is currently **free** of charge. Select the grade level materials you're interested in reviewing.
https://www.thinkwellhomeschool.com/collections/essential-review-courses