

Outdoor Learning Experiences

for in-school and at-home learning

K-5 Mathematics & Numeracy

June 2020

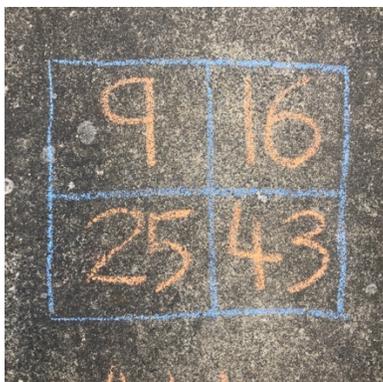
Counting Collections

Find a collection of materials outside (leaves, rocks, twigs, cones).

What different ways can you count them?

How could you record your counts?

Find plants, trees or flowers and think about how you could count them. For example, buttercups have five petals – find a patch of buttercups and count by 5s.



WODB

Using sidewalk chalk on concrete or twigs, create a 2x2 grid. Choose four numbers, shapes or natural items found outside and place one in each section.

How are they the same?

How are they different?

If you had to choose one thing to not belong, which would it be and why?

Leave your WODB out for others to think and talk about.

Math Walks

Go on a daily math walk, with a different focus each day. Take a notebook or clipboard with paper and pencil to record what you find.

What shapes do you see? What numbers can you find? What could we count? What strategies can you use to estimate the number of leaves on the tree? What do you notice about the different patterns you find in plants and trees?



Patterning

Use materials found outside to create repeating patterns, growing patterns, patterns in circles or spirals.

Create patterns on safe concrete areas with sidewalk chalk, leaving parts for others to think and talk about.

What part of the pattern is missing?

What could come next?



Measuring

What could you find outside to measure?
Find 10 of something outside and put them in order from shortest to longest.

Choose an area outside (garden, field, backyard). *What different ways could you measure it?* Length, width, area, perimeter.

Record your measurements using pictures, numbers and words.

2D & 3D Shapes

Find twigs and use string to lash or tie them together to make nets/frames of 2D and 3D shapes.

How do shapes come together to make new shapes? What shapes do you see within your shape? What could you create with your shapes?



Tic Tac Toe

Gather materials outside to make a tic-tac-toe game or use chalk on a safe, clear concrete area.

What strategies do you use when playing tic-tac-toe? What other games could you create with materials you can find outdoors?

Suggested materials to pack in a outdoors "go bag": clipboard, paper, pencil, eraser, sidewalk chalk, string or yarn, scissors, ruler, measuring tape, magnifying glass.