

|                        | COUNTING & CARDINALITY  | OPERATIONS & ALGEBRAIC THINKING  | MEASUREMENT & DATA  | GEOMETRY  |
|------------------------|---|--|---|---|
| Level 1<br>(Preschool) | Count the petals on flowers. Do all the flowers have the same number of petals?   | Write the numbers 1-10 in chalk. Have someone call out a number and then run to stand on that number. Hold up the corresponding value on your fingers. Where is number 4? Can you show me 4 on your fingers?                             | While outside, or on a walk find 4 things that are heavier than you and 4 things that are lighter than you.   | Using chalk, create a maze with shapes by drawing different shapes (triangle, square, circle etc.) close together. Name a shape and follow it out of the maze, make sure to only step on the shape that has been named. |
| Level 2<br>(Pre-K)     | Ask a grown up to write numbers in chalk. Trace over numbers written in chalk with water using a paintbrush.  | With chalk write the numbers 1-6 in a line, but in random order. Across from that draw the six different sides to a dice, also in random order. Using chalk connect the number with its corresponding dice.                              | Playing outside,<br>compare volume and<br>the capacity of different<br>size containers by filling<br>and emptying them.<br>Which container holds<br>the most liquid? How<br>can you find out? | Make chalk paint by mixing 2 tablespoons of cornstarch, 4 tablespoons of water, and a couple drops of food coloring. Using a paint brush, practice drawing different shapes outside.                                    |
| Level 3<br>(Kinder)    | Find several of two different objects (ex: flowers and pinecone) Draw a ten frame on the ground. Play around with different combinations that equal 10.   | Find ten rocks. Ask someone to use a leaf or other outdoor object to cover some of the rocks. Guess how many rocks are covered.  | While on a walk collect stuff that you find on the ground. Sort your findings into categories. (ex. shape, color, size, etc.) Make a table of your finds.  Sticks Feathers Ill Italian        | Go on a photo shape hunt. See how many 2-dimentional (square, triangle, circle, etc.) and 3-dimentional (cubes, spheres, cones, etc.) shapes you can find. Take pictures of them and share with a friend or sibling.    |
| Level 4<br>(1st grade) | Using chalk, draw "puddles" jumping distance apart. Choose a series of numbers (2, 12, 22, 32, 42, 52, 62, etc.) Write one in each puddle in any order. Choose a starting number. Have someone then tell you if the next number is 10 less or 10 more. Jump to that puddle. Repeat. | Draw 21 carrots (or other plants) with chalk and write a number, 0-20 on each carrot. Pick two carrots to create a math equation (addition or subtraction), then using a watering can or jug "water" the carrot with the correct answer. | Go on a bug hunt recording the different types and amounts of bugs you see, then make a bar chart.  | Draw a square with chalk. Can you turn the square into 2 equal triangles? How about 4 equal triangles? Draw a triangle with chalk. Can you turn the big triangle into 2 equal triangles? Try with other shapes.         |

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