

Math Activity: Nature Shapes

Materials Needed:

A bag or basket to gather items

A piece of chalk or a pebble

Items from Nature (i.e. Sticks, Grass, flowers, leaves, rocks)

Learning Target(s):

I can describe objects in the environment using names of shapes and creating shapes.

Identifies a few basic shapes.

Directions/Instruction:

Go outdoors and challenge the children to collect Items in nature, the back yard or neighborhood. This like twigs, rocks, flowers, pieces of bark Etc. When done with collecting their treasures come back and they can begin grouping their items together and then begin making shapes, talk about the various shapes and focus on what makes each shape unique. You can talk about how the size of the shapes can vary depending on what you use. For example, “blade of grass are better for making squares rather than circles”.

After making the shape name it “I made a square with sticks”

Families can also make shapes out of the items then ask “What shape did I make?”

Not Ready Yet:

Show and names the shapes our loud for your child. Use your finger to point to the shapes to identify them.

Need a Challenge:

Try some more complex shapes like Rhombus, Trapezoid, octagon, and hexagon. Count how many items it took to make each shape.

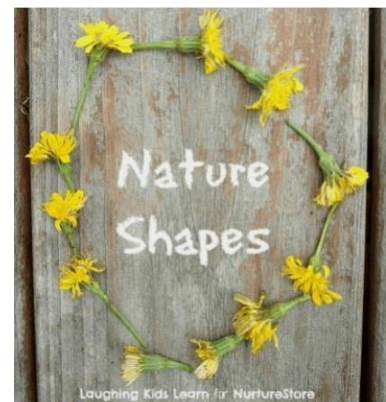
Go for a walk and find shapes in nature, shapes can be drawn on the ground with a pebble or chalk, and children can take their items and place them on the shapes.

Ready Rosie links:

[Shape Hunt](#)

[Guess My Shape](#)

Visuals/Examples:



Math Activity-POSITIONS

Material: 2 stuffed animals (any kind)

Learning Target:

Know different positions by placing stuffed animals in different directions

How to do activity:

Ask student to listen to the direction and then move the stuffed animals into that position.

1. Front VS. Behind: put the bear in front of the rabbit; put the bear behind the rabbit
2. Above VS. below: put the bear above your head; put the rabbit below your knee
3. Over VS. Under: put the bear over the chair; put the rabbit under the chair
4. In VS. Out: put the bear in the backpack; leave the rabbit out of backpack
5. Inside VS. Outside: put the bear inside the tub; put the rabbit outside the tub
6. Near VS. Far: put the bear & the rabbit near together; put the bear & the rabbit far away from each other
7. Up VS. Down: lift up the bear; put down the rabbit

Ready Rosie:

Following Directions

Stuffed Animal Olympics

Visual:



Activity: Building with Recycled items

Materials needed:

Recycled materials- (some examples) toilet paper rolls, milk cartons, newspaper, cardboard, water bottles/soda bottles, straws, lids, tape, glue, staples, string/yarn/rope/shoe laces/thread

Coloring utensils

Learning Targets:

I am using my imagination to build new creations

I can use my eye hand coordination to create

I can use scissors to cut

I can put a puzzle together

I can measure items and compare items of different sizes

Directions:

Gather recycled materials from around the house

Gather tape/glue/stapler/scissor/coloring utensils

Come up with an idea of what you want to build

THERE ARE SO MANY OPTIONS, SO MANY CREATIONS THAT CAN BE MADE!

****Here are a few examples of what can be built:**

1. Make a scale

Find 2 identical cups/cartons, string/yarn/thread, a hanger with dress hooks, something to poke a hole

Take the two cups/cartons and poke a hole in one side in the roughly the same place

Take your string/yarn/thread and cut two pieces the same length

Thread one through the hole of one of the cups and tie it in a knot at the top of the string making a loop

Repeat with the other cup

Loop the string/yarn/thread over the dress hook on the hanger

Hook the hanger on a doorknob

Now measure and compare different items (like toys, eating utensils)

2. Make a puzzle

Find a picture from a cardboard box or used food box (like hamburger helper or mac n cheese)

Cut the picture out

Draw lines onto the back to help with cutting

cut the picture into big pieces

Mix them up

Put the picture back together

Added Challenge:

have an adult/bigger person cut the picture into smaller pieces or more complicated pieces

3. Building a bowling game

Gather 3-9 water bottles or old soda bottles for the pins

Decorate the bottles

Set them up in a line or a triangle

Find a ball to roll at the “pins” or get a soup can and use it to roll at the pins to see how many you can knock down and continue until they are all knocked down.

Count the pins as you knock them down, play with siblings/adults to see who can knock the most down.

4. Build a robot or people

Gather all sorts of recycled materials in all different sizes

Use the biggest recycled item as the body, and decorate it with paper/markers/crayons/paints

Find a slightly smaller item for the head and decorate

Find little items like lids/buttons/ or make little items out of ripped up paper/cardboard/magazines and use them for buttons and eyes and attach them to the head and body

Find items that work for arms/legs and decorate them

Have a parent or bigger person help you in figuring out how to connect them to the robot’s body with glue/tape/staplers

Add some hair and other details to give it a personality

If you have more materials build a family of robots

5. Build a city

Gather cardboard, toilet paper rolls, used soup cans, used food boxes

Gather tape/glue/tape

Decorate the items

Build bridges and tunnels with cardboard and toilet paper rolls or other items that can hold up cardboard

Use the food boxes for the buildings and set them up

If you have hot wheels/cars you can use them to drive around your new city!

Video Links:

Ready Rosie:

[Recycled Play](#)

YouTube:

[Egg Carton Crafts](#)

Pinterest:

[Making a Fairy House](#)

[Making Mismatched Robots](#)

[Building a Recycled City](#)

Visuals:





Activity: Big & Little Walk

Materials:

Paper, Pen, and watching eyes

How to:

Take a walk around your neighborhood. Ask your child to look for big things & little things. After you get home, draw a line down the middle of a paper. Write BIG on one side, LITTLE on the other. Have your child tell you the big & little things s/he saw and write them on the paper. Count the big things. Count the little things. Write the number on each side. Which is more? Which is least?

Ready Rosie:

[Hunt and Measure](#)

[Matching Lid](#)

Visual:



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