

Activity Title: Exploring Volume

Theme: Water

Month: January

Aim: Learning about the concept of volume, size, and capacity, comparing various containers in a practical way. This simple measurement and maths activity is a fun way to introduce volume to pupils and it also includes great fine motor skills practice.

Resources/Materials needed:

- Plastic 1 or 2 Cup Measuring Container
- Plastic Pitcher of Water
- Funnel
- Food Coloring
- Variety of Containers in Different Sizes and Shapes
- Tray and Paper Towels (To Catch Spills)

Subject Maths

Activity

Step 1. Fill a plastic pitcher with enough water the pupils can manage pouring. Add food coloring, it helps kids to better see the volume of water in each container.

Place a variety of containers (bottles, food storage containers, cups,...) on a tray or table. You can also set out a funnel to use with the water bottles.

Step 2. You can try out the activity two ways:

1st:

- Pour water from the pitcher into the measuring cup.
- Pour the cup of water into the water bottle with the help of a funnel.
- Pour that water bottle into the next smaller water bottle.
- Continue with all containers.

2nd:

- Pour one cup at a time from the pitcher into each container

Step 3 Kids can easily compare and contrast the results and discuss what they see in regards to the volume of each container.

Step 4. If you have used some larger containers, you can extend the activity by asking the kids to see how many more cups will fit into each of the containers. Even if a container overflows, it is a great opportunity to show what happens when the volume of water is greater than the volume of the container!

Step 5. *What Is Volume?*

Young kids learn by exploring, observing, and figuring out the way things work by doing. Kids will learn that volume is the space a substance or object takes up or that can be enclosed in a container. Kids will be able to observe the differences and similarities among the containers when they pour the water and compare the results.

These are the links for a short example of this activity:

<https://www.ashleigh-educationjourney.com/monday-math-stations/>

<https://i.pinimg.com/originals/0d/57/4d/0d574d8e413fb112e7dbda814d8c69f7.jpg>

<https://littlebinsforlittlehands.com/volume-science-experiment-stem-activity/>