



Brown Dog Spring Science

Rain cloud in a jar



Materials:

- Printable recording sheets
- A large clear jar or mason jar
- Shaving cream (not a gel version)
- Gel Food coloring or washable watercolors (red, yellow, blue)
- Pipettes or droppers

Set Up:

1. In a small cup, mix the food coloring with some water.
2. Fill the large clear jar with water until it is about 3/4 full.
3. Place the jar and the cups of colored water on the table. Place a pipette in each cup of colored water.
4. Right before the kids are ready to do the experiment, spray a bunch of shaving cream in the jar until it is just a small bit above the top of the jar.

Doing the Rain Cloud in a Jar Experiment:

- Ask the kids to pick up some colored water with a pipette and squirt it on top of the shaving cream cloud.
 - Repeat this step one or two more times, but pay close attention to what is happening below the cloud!
- The colored water will begin to seep down through the shaving cream and into the water below.

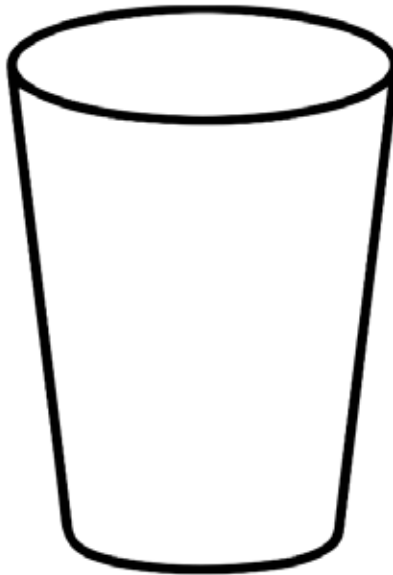
How it Works:

The shaving cream represents the clouds and the water represents the air. The colored water represents rain. As the colored water saturates the “cloud”, it gets heavy and eventually is so heavy that it can no longer hold the water. It “rains” down into the jar – through the “air.” It is just like real rain falls through the air.

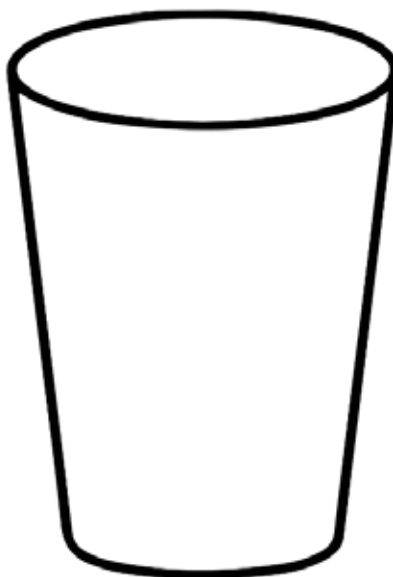


Rain Cloud in a Jar

What I think will happen...



What I observed...

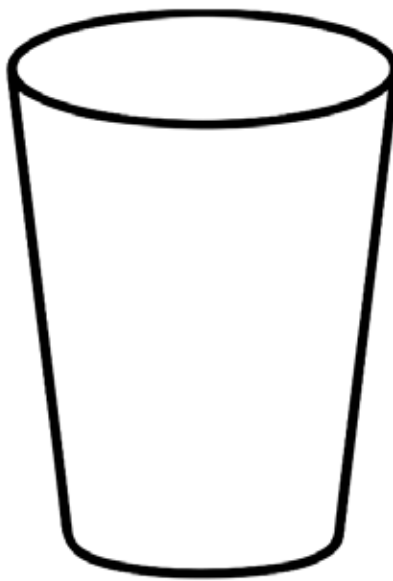




Rain Cloud in a Jar

What I think will happen...

What I observed...



What I learned...
