

Water Properties Demonstrations

Name:

Please find a partner and follow the directions, complete experiments, and answer all the questions. Follow the directions to the best of your ability if you have questions please ask Mr. Cressler. The experiments can be completed in any order

Experiment 1:

Materials: Styrofoam bowl, water, liquid soap

1. Fill a Styrofoam bowl halfway with water.
2. Sprinkle black pepper on the surface of the water until there is a light to moderate coating of pepper flakes
3. Add one drop of liquid detergent to the water
4. Observe and record what happens to the pepper flakes.
5. Rinse the bowl when done with the experiment
6. Repeat if needed

What happened to the pepper flakes when you added the soap? (Please use complete sentences.)

Repeat this experiment before rinsing the bowl; did it work a second time? (Please use complete sentences.)

Which property of water is demonstrated here? (Please use complete sentences.)

Experiment 2:

Materials: 2 Styrofoam cups, 1 piece of paper towel, water, food coloring

1. Fill one cup with water
2. Twist the paper towel to create a "rope"
3. Wet the paper towel rope
4. Use the wet rope to create a "bridge" between the full cup and the empty cup.
5. Add a single drop of food coloring to the water
6. Observe the two cups and record what happens (this one takes awhile you may want to start another experiment)

Describe what happened to the water in the cups? (Please use complete sentences.)

Why do you think food coloring was added to the water of one cup? (Please use complete sentences.)

Which property of water is demonstrated here? (Please use complete sentences.)

Experiment 3:

Materials: Styrofoam bowl, water, liquid soap, toothpick

1. Fill a Styrofoam bowl halfway with water.
2. Place a drop soap on the end of a toothpick
3. Place the tooth pick in the bowl with the soaped end near the edge of the bowl
4. Observe the results
5. Rinse the bowl
6. Repeat if needed

Describe what happened to the tooth pick? (Please use complete sentences.)

Repeat this experiment before rinsing the bowl; did it work a second time? (Please use complete sentences.)

Which property of water is demonstrated here? (Please use complete sentences.)

Experiment 4:

Materials: Penny, eye dropper, Styrofoam cup, paper towel

1. Enter a guess as to how many drops of water you think will fit on the penny.
2. Rinse a penny in tap water and dry completely.
3. Place the penny on paper towel.
4. Fill the Styrofoam cup with water
5. Use an eye dropper to place drops of WATER on the penny (one at a time) until ANY amount of water runs over the edge of the penny.
6. Record the number of drops for that trial in the table below.
7. Repeat steps 2 -5 to complete the table

How many drops of water do you think will fit on a penny? _____ (guess)

Trial 1	Trial 2	Trial 3	Trial 4	Average
You:				
Your Partner:				

Was the actual number of water drops higher or lower than your estimate? (Please use complete sentences.)

Which property of water is demonstrated here? (Please use complete sentences.)

