

Name _____

M&M Lab

Research Question: Will M&M color dissolve faster in water or in another clear liquid?

Materials Needed: 2 cups, masking tape, marker, water, another clear liquid, 2 identical plain M&M's, stopwatch

Variables: (Decide which clear liquid you will use before completing this section.)

Independent Variable: _____

Dependent Variable: _____

Constant Variables: _____

Hypothesis: _____

Procedure: (Read all of the steps before you begin!)

1. Use 2 cups. Stick a piece of masking tape as a label on the side of each cup. With a marker, label the first one "Cup 1" and the other "Cup 2."
2. Put 100 ml of room temperature water in Cup 1. Put 100 ml of another clear liquid (also at room temperature) in Cup 2.
3. Choose 2 of the same color of plain M&M's. Drop one M&M into each cup at exactly the same time and start the stopwatch as you drop the M&M's. Do not touch the candy or cups once you have started the experiment!
4. Carefully observe what is happening to the M&M's. In the table below, record the time it takes for the color to completely come off of each M&M.

Record Data:

The effect of different liquids on the time it takes for color to dissolve

Liquid	Time it took for color to come off
Cup 1: Water	
Cup 2: _____	

Draw Conclusions:

1. What happened to the M&M in Cup 1?

2. What happened to the M&M in Cup 2?

3. Why is it important that both M&M's are the same color?

4. Was your hypothesis supported? Why or why not?

5. What can you conclude about different liquids and how well they remove M&M color?
