

Your Name:  
Date:  
Class Number:

### Gobstopper Lab

Problem: Does changing the temperature of the water effect how long it takes for the candy coating of a Gobstopper to dissolve?

Hypothesis: if you \_\_\_\_\_ then  
\_\_\_\_\_.

Materials: two sets of four different colored Gobstoppers  
petri dish  
plastic beaker filled halfway with water  
paper towel

#### Procedure:

- 1) Place an empty petri dish in the middle of the counter, on top of the paper towel.
- 2) Place 4 gobstoppers equidistant around the inside of the petri dish.
- 3) Fill the petri dish with water to the very top. Careful not to bump the dish. Take your **BEFORE** picture.
- 4) Watch the gobstoppers and time how long it takes for the colors to all meet in the middle of the petri dish.
- 5) Make observations on the appearance of the gobstoppers after being immersed in water and the appearance of the water. Record the time it takes. Take your **AFTER** picture.
- 6) Repeat the steps above using hot water. Time how long it takes for the appearance to be the same.

#### Variables:

Manipulated:

Controlled:

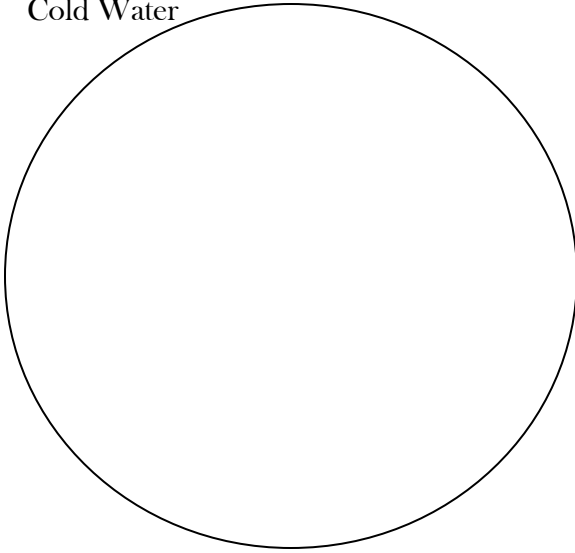
Responding:

Observations:

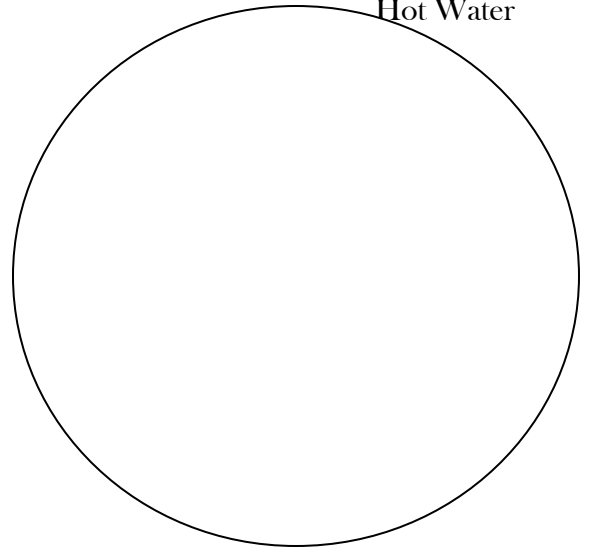
Conclusions:

Pictures: Take a photo of you petri dishes at exactly ONE MINUTE into the trial and place it below.

Cold Water



Hot Water



Time for colours to meet completely  
(Cold Water)

\_\_\_\_\_ minutes

Time for colours to meet completely  
(Hot Water)

\_\_\_\_\_ minutes

Other Pictures / Group Selfies