

Food Coloring and Water Lab

Procedures

- 1) Label 3 pieces of scrap paper with the following
Beaker A: Cold Water Beaker B: Room Temperature Water Beaker C: Warm Water
- 2) Place each paper under one of the beakers. Fill each of the beakers halfway with the proper temperature of water.
- 3) Select two different colors of food coloring.
- 4) Add two drops of color 1 to one side of the water in each of the beakers. Very quickly, add two drops of color 2 to the other side of the water in each of the beakers (see figure on the board).
- 5) Observe the movement of the food coloring in each of the beaker. Record your observations over time. Include drawings as part of your observations.

Observations

Beaker A: Cold Water	Beaker B: Room Temperature Water	Beaker C: Warm Water

Questions

- 1) What initially happened when the food coloring was added to the water?
- 2) Over time, what happened to the food coloring in the water? Be descriptive in your response.
- 3) What were the similarities and differences between the movements of food coloring in the different temperature of water?
- 4) Based on your observations, what was going on? Include the following concepts in your explanation:
Movement of molecules, Concentration of molecules in a liquid, Differences in Concentrations