

Name _____

Name _____

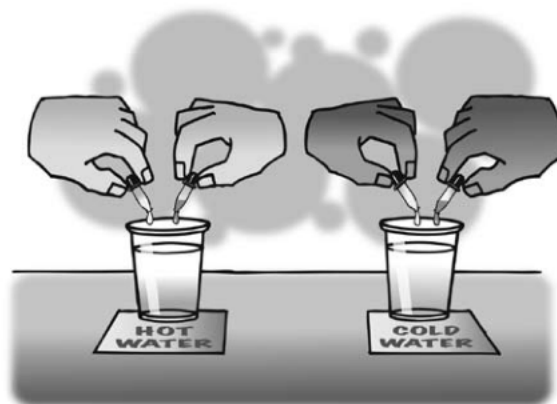
ACTIVITY

Question to investigate

Is the speed of water molecules different in hot and cold water?

Materials for each group

- Hot water in a clear plastic cup
- Cold water in a clear plastic cup
- Food coloring (yellow and blue)
- 4 droppers



Procedure

1. With the help of your partners, use droppers to carefully place 1 drop of yellow and 1 drop of blue food coloring into the hot and cold water at the same time.
2. Allow the colors to mix on their own as you watch them for a couple of minutes.

WHAT DID YOU OBSERVE?

1. Describe what the colors looked like and how they moved and mixed in the cold water.
2. Describe what the colors looked like and how they moved and mixed in the hot water.
3. What does the speed of the mixing colors tell you about the speed of the molecules in hot and cold water?