

# Scientific Method Lab Supply List and Setup Instructions

## Materials:

- 1 cup ice water
- 1 cup room temperature water
- 1 cup hot water
- 6 tablespoons white granulated sugar
- 3 clear plastic cups/glasses and a dark surface to put them on or 3 dark-colored mugs
- colored pencils
- calculator (if they need help converting minutes to seconds)
- tablespoon measuring spoon
- measuring cup to measure  $\frac{1}{2}$  cup
- stopwatch or phone stopwatch
- thermometer (optional)
- metal or plastic spoon for stirring
- 2 worksheets (printed from email sent the Friday before class)

## Advanced preparation: (adult supervision/help may be required for hot water preparation)

1. Print the 2 worksheets from the email sent Friday before class.
2. Have all supplies near your work area at the start of class.
3. Room Temperature Water: The night before or at least 2 hours before class, set out 1 cup of water so it is at room temperature before starting the experiment.
4. Cold Water: Within 5 minutes before class starts, put 1 cup of water into a container with at least 5 ice cubes.
5. Hot Water: Within 5 minutes before class starts, heat 1 cup of water in a microwave for 2 minutes. Put the hot water in a thermos or travel mug (without a lid) being careful to avoid burns. Alternatively, get  $\frac{1}{2}$  cup of very hot tap water or microwave 1 cup of water for 1 minute right before it is needed during class.