

Using a Thermometer

Students make a thermometer craft project and work with their mentor to learn how to read the thermometer.

Grade Range: 1 to 3rd

Time: 40 min

Synopsis: This activity teaches students the basic skill to read a thermometer. Thermometers teach students to count by 10 and 20 because not all their numbers are written. They also learn about the hatch marks to indicate the missing numbers.

Materials:

Jumbo popsicle craft stick available at craft store (7.75" long).

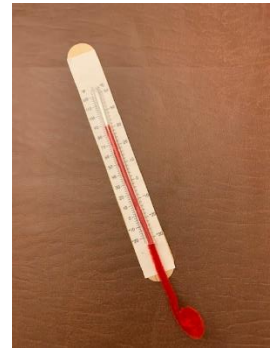
Red pipe cleaner cut to

Clear plastic straws or clear plastic tubing cut to 5"

Thermometer template (pg 3) cut to 8"

Glue stick and clear tape (scotch or packing tape)

Optional Experiment: Thermometer(s), Cups, Hot Water and Cold Water
Data sheets (pg 2)



Thermometer Craft: Have students glue the thermometer template to the craft stick. Then glue the clear straw or tubing between the thermometer markings for Fahrenheit and Celsius. Use clear tape to help secure the tube to the craft stick. Next, students can insert the pipe cleaner into the tube just to the top mark and roll up the bottom.

Work with students to show different readings on their thermometer. Have them find 32 °F or 0 C where water freezes and snow can happen. Locate 98 °F which is around their body temperature and the temperature of a hot summer day in Cincinnati.

Optional Experiment: Work in teams with one adult for each group of 4-6 kids.

- 1) Measure the temperature of Hot Water and record the observation.
- 2) Measure the temperature of Cold Water and record the observation.

Question: What will happen when you mix the water together?

- 3) Mix the water together and measure the temperature. Record your observation.

Name _____



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Water freezes at 32 °F which is 0 C. Mark this on your thermometer.

Your body temperature is 98 °F. Mark this on your thermometer.

What is the temperature of the COLD WATER? _____ °F

What is the temperature of the HOT WATER? _____ °F

What is the temperature when you MIX them? _____ °F

