

WHAT'S THE TEMPERATURE?

PURPOSE: Children will practice measurement using thermometers. Children will predict the temperature of various liquids.

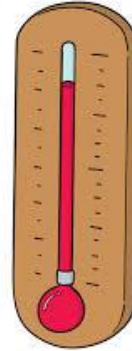
MATERIALS:

Book Topics: weather, temperature, thermometers

Thermometer

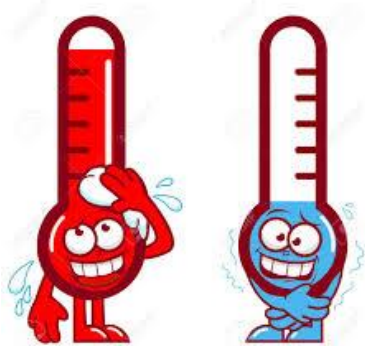
Three plastic cups

Two liquids of varying temperatures

**PROCEDURE:**

1. Label three cups A and B and C.
2. Fill cup A with a liquid. (water, juice, soda etc.) Add ice.
3. Place the thermometer in the liquid and keep it there for two minutes. Read the thermometer. Record the results.
4. Heat one cup of the same liquid. Fill cup B with the heater liquid. **(CAUTION: An adult should heat the liquid. Make sure liquid is warm and not boiling hot.)**
5. Place the thermometer in the heater liquid and keep it there for two minutes. Read the thermometer. Record the results.
6. Predict what the temperature will be if you mix one half cup of liquid A with one half cup of liquid B. Record your prediction.
7. Pour in one half cup of liquid A and one-half cup of liquid B into cup C. Stir.
8. Place the thermometer in the combined liquid and keep it there for two minutes. Read the thermometer. Record the results.
9. Did your prediction match the results?

HOW IT WORKS: Thermometers are used to measure temperature. The warmer the liquid the higher the temperature. The cooler the liquid the lower the temperature.

**WRITING PROMPT**

You learned that a thermometer can measure temperature.

Draw two pictures of a thermometer. Show one thermometer with high temperature. Show the other thermometer with a low temperature.

Write a story about a person who had a very high temperature. How did that person feel? What would that person need to feel better?

Parent Signature: _____

**FAMILY SCIENCE PROJECT**

Date: _____

Name: _____

Teacher: _____

Hypothesis (What do you think will happen?)

Date/Observation:

Conclusion: (What you learned or discovered):

*(*You may continue your observation on another sheet. You may want to create a graph to record your data.)*

For the reading portion of Family Science, you may choose to read a book or an article, OR you may use the Internet in order to find some background information concerning this Family Science Project. If you read a book or an article, please include the complete title and author. If instead you looked up the information on the Internet, please include the complete website.

We read the following book, **OR** researched the information on the Internet:

Book Title: _____ Author: _____

Complete Website: _____

Writing Prompt (minimum 3 sentences)
