

Changing States of Matter...an At Home Experiment

Extra Credit



Step 1: CHOOSE: Select one of the following problems to solve.

- A. Which will cool off at a faster rate, hot or cold water?
- B. Will hot water or cold water freeze in a shorter time?
- C. Do different amounts of water freeze in a shorter time?
- D. Do different amounts of water boil at the same temperature?
- E. Does water boil at the same temperature each day?
- F. Can liquid water be made colder than 0° Celsius (32° F) and still be a liquid?
- G. Will water in an open bottle evaporate faster than in a pan?
- H. Will water with sugar in it evaporate more slowly?

Step 2: Experiment:

You will need to use the Scientific Method to complete the experiment.

1. Write a Hypothesis.....(I think.....)
2. Complete a detailed step-by-step plan of how you will do your experiment.
3. Conduct your experiment and RECORD your results (data table, chart or graph)
4. Write a conclusion (My hypothesis was.....right or wrong...because....)

Name _____

Date _____

Scientific Method in My Science Fair Project

Question: (What question were you trying to investigate?)

Hypothesis: (What did you think was going to happen?)

Method: (How did you test your question?)

Observations/Results: (What did you discover?)

Conclusion: (Was your hypothesis correct? Why do you think things turned out the way they did?)

Further Questions: (What other kinds of experiments could you do in the future related to this topic? What other questions would be interesting to ask?)
