

NAME:

HONORS CHEMISTRY

SECTION:

Design Your Own Experiment

This is the first of several take-home experiments you will complete this year. Have fun!

Objectives

- Use the scientific method to plan and carry out an experiment
- Collect and interpret data

Question: Do ice cubes melt faster in tap water or in salt water?

Hypothesis

It is predicted that _____

BECAUSE _____

Plan your experiment

- What is your experimental variable (test variable)? _____

- List your controlled variable(s) here:

- List the materials you will use to carry out this experiment:

- Write out a step-by-step procedure for your experiment.

Do the experiment

- Create a data table here. Make sure you have a place to record every piece of data you will need!

- Carry out your experiment as planned above. Record your data in the table and list any relevant observations. You may repeat the experiment, if you wish.

Analyze and Apply

Answer these questions in complete sentences. Be as detailed and specific as possible.

Do ice cubes melt faster in tap water or in salt water? Did your results support your hypothesis? Why or why not (i.e., can you explain your results)?

How could you modify your original procedure to confirm your explanation?