

Date: _____

The Scientific Method SNC2P

Step 1: _____

A _____ question is any question that can be answered using the scientific method (by _____ or _____).

Step 2: Gather _____ and _____

Step 3: _____

A hypothesis is a _____.

Step 4: _____ and _____

A _____ is anything in an experiment that may be _____.

Most experiments change only two:

- the _____ variable (also called the _____ variable) is the variable changed by the _____.
- the _____ variable (also called the _____ variable) is the variable _____ by the experimenter.

Example: For the Question,

“How does changing the length of a pendulum affect the time it takes to swing?”

The manipulated variable is the _____.

The responding variable is the _____.

All other variables that are kept the _____ are called _____ variables.

In the pendulum experiment, what would you have to control?

Because you can never control everything completely, you should perform multiple _____ and _____ the results.

Step 5: _____ (often using _____)

Step 6: _____