

Scientific Method Study Sheet

∞ Know the following steps with their meanings **in this order.**

Observe – your senses

Pose a Question – decide on a question or problem

Develop a hypothesis – Create a possible explanation for the question

Develop an experiment – Create and conduct the experiment

Collect and interpret data – write down observations and results

Draw conclusions – Decide if the data supports the hypothesis

Communicate – Share ideas and findings

∞ Be able to apply the above scientific method to a sample experiment.

∞ Know the following vocabulary

Scientific inquiry

Hypothesis

Variable

Manipulated variable

Responding variable

Controlled experiment

Operational definition

Data

Communicating

Scientific theory

Scientific law