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Period \_\_\_\_ Number\_\_\_

**Unit 1-Intro to Science & Scientific Method**

**Review Sheet**

**Section 1 Notes**

1. What is the scientific method?
2. What are the steps of the scientific method?
3. What is data?
4. What is a theory?

**Section 2 Notes**

1. How many variables should you have in a controlled experiment?
2. What 3 things should a good experiment include?
3. Give an example of an observation.
4. Give an example of an inference.

**Directions: Answer the questions below on this sheet of paper**.

1. Mr. Smith’s thinks that a special juice will increase the productivity of his workers. He creates two groups of 50 workers each and assigns each group the same task (in this case, they’re supposed to staple a set of paper). Group A is given the special juice to drink while they work. Group B is not given the special juice. After an hour, Mr. Smith’s counts how many stacks of papers each group has made. Group A made 1,587 stacks, Group B made 2,113 stacks.

Identify the problem? (What question is Mr. Smith trying to answer?)

Write a hypothesis for this experiment. (Use “If…, then…, because…”)

What is the control group?

Identify 2 control factors (constants).

What is the experimental group?

What is the variable of this experiment?