The Simpsons Experiments
Activity Sheet

Name: __________________________
Hour: ______ Date: _____________

Experiment #1: Smithers thought that a special juice would increase the productivity of his workers. He created two groups of 50 workers each and assigned each group the same task, in this case stapling a set of papers together. Group A was given the special juice to drink while they worked. Group B was given plain water to drink while they worked. After an hour, Smithers counted how many stacks of papers each group made. Group A made 1,587 stacks, while Group B made 2,133 stacks.

1. Identify the constants:

2. Identify the control:

3. Identify the independent variable:

4. Identify the dependent variable:

5. What should Smithers’ conclusion be?

Experiment #2: Homer noticed that his shower was covered in a strange green slime. His friend Barney suggested to him that coconut juice would get rid of the slime. Homer decided to check this idea out by spraying one wall of the shower with coconut juice and the other wall with plain water. After 6 hours of “treatment,” there is no change in the appearance of the green slime on either wall of the shower.

6. Identify the constants:

7. Identify the control:

8. Identify the independent variable:

9. Identify the dependent variable:

10. What should Homer’s conclusion be?
**Experiment #3:** Lisa is working on a science project at home. The purpose of her experiment, or her statement of problem: “Does Rootaggi (which is a commercial hair product) affect the speed of hair growth.” Lisa is very skeptical of the claims of the Rootaggi company and doesn’t think it will work. Her mother Marge and her brother Bart are willing to volunteer for the experiment. Fill in the following steps of the scientific method to explain how you think Lisa should proceed with her experiment.

11. Describe Lisa’s experiment in a paragraph:

12. Draw diagrams of Lisa’s experiment...be sure to label your diagrams:

13. Identify the constants:

14. Identify the control:

15. Identify the independent variable:

16. Identify the dependent variable: