

Name: _____

Science Fair 101

In “Cleaning Up Soiled Sites” (p. 6), you learned about the basic parts of a science project. Test your understanding by completing this worksheet.

Part A: Vocabulary Check

DIRECTIONS: Match the word(s) in the left column with the correct phrase in the right column.

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|----------------------------|---|
| __ 1. scientific method | a. characteristics in an experiment that change or could be changed |
| __ 2. variables | b. characteristics in an experiment that don't change from trial to trial |
| __ 3. dependent variable | c. variable you change or adjust on purpose, also called a manipulated variable |
| __ 4. independent variable | d. summary of results |
| __ 5. constants | e. standard to which you compare the results of an experiment |
| __ 6. control | f. step-by-step approach to conducting scientific studies |
| __ 7. trials | g. repeated tests in an experiment |
| __ 8. conclusion | h. factor that responds to a change in the manipulated variable |

Part B: Comprehension Check

DIRECTIONS: Answer the following questions in complete sentences.

1. What is a hypothesis?
2. What was the hypothesis of Arthi and Rani's experiment?
3. How did Arthi and Rani conduct background research for their experiment? What did their research uncover?
4. What did Arthi and Rani choose as their experiment's independent variable and dependent variable?
5. Did Arthi and Rani accept or reject their hypothesis? Explain why.