

Name _____

THE SCIENTIFIC METHOD

Using the numbers 1-6, indicate the order of events in using the scientific method.

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|----------|---|
| <u>4</u> | Test the hypothesis by performing an experiment. |
| 5 | Make observations and record data. |
| <u>3</u> | Make a hypothesis and an experimental prediction. |
| 1 | Identify the problem to be studied. |
| <u>6</u> | Use data and results to support a conclusion. |
| 2 | Perform background research on the problem. |

Provide the letter of the definition that matches the scientific terms below.

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|----------|---------------|---|
| <u>f</u> | 1. control | a) Using a set of observations to test a hypothesis. |
| d | 2. conclusion | b) an idea about the system being examined. |
| b | 3. hypothesis | c) The numerical values recorded during an experiment or observation. |
| a | 4. experiment | d) A decision based on the data from an experiment |
| g | 5. variable | e) A well-supported set of observations and explanations for natural events. |
| c | 6. data | f) Set of observations used as a reference and compared to experimental observations in order to show that the result is due to the experimental treatment. |
| <u>e</u> | 7. theory | g) Name for the type of value measured that may vary in an experiment. |