

Name _____

Date ____ / ____ / ____

LOGIC OF SCIENCE AND THE SCIENTIFIC METHOD

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

- | | |
|------------|---|
| 4
_____ | Test the hypothesis by performing an experiment. |
| 5
_____ | Make observations and record data. |
| 3
_____ | Make a hypothesis and an experimental prediction. |
| 1
_____ | Identify the problem to be studied. |
| 6
_____ | 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.

- | | | |
|------------|---------------|---|
| f
_____ | 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. |
| e
_____ | 7. theory | g) Name for the type of value measured that may vary in an experiment. |

