

The Scientific Method

Number the steps of the scientific method in the proper order.

_____ Organize and analyze data.

_____ State a hypothesis.

_____ Identify the problem.

_____ State a conclusion.

_____ Design and carry out an experiment.

_____ Make observations and record data.

_____ Gather information.

Match the term with its definition.

1. theory _____

2. law _____

3. hypothesis _____

4. experiment _____

5. variable _____

6. control _____

7. data _____

8. conclusion _____

9. application _____

a. suggested explanation to a problem or observation based upon known information

b. used to test a hypothesis

c. anything that can affect the results of an experiment

d. observations and measurements made during an experiment

e. part within the experiment that is maintained without change to provide a comparison for the part of the experiment containing the variable

f. hypothesis that has been tested and supported by a great amount of evidence over a long period of time

g. statement describing (but not explaining) a natural event or phenomenon

h. new use to which results are put or new technique developed

i. summary that explains whether the data support the hypothesis