

## The Scientific Method

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Matching Directions:** Match each term related to the scientific method to its definition.

_____ problem	<b>A:</b> collection of information gathered during the experiment. Usually given in the form of a table.
_____ hypothesis	<b>B:</b> any factor in an experiment that can be changed or controlled
_____ materials	<b>C:</b> an educated guess regarding the results of the experiment; given in an if/then statement
_____ procedure	<b>D:</b> repetitions of the experiment in order to get accurate results
_____ data	<b>E:</b> the variable that changes as a result of the changes made to the independent variable
_____ analysis	<b>F:</b> statement of the results of your experiment; must refer back to the hypothesis; connections made to the real-world
_____ conclusion	<b>G:</b> variables that need to remain the same in every test and trial
_____ trials	<b>H:</b> a list of all supplies used in the experiment; must also include the amount of each item needed
_____ control group	<b>I:</b> the question you are trying the answer during the experiment; must not be a yes/no question
_____ variable	<b>J:</b> the variable that you are purposefully changing in an experiment
_____ constant	<b>K:</b> a group that serves as the comparison to all other groups; generally contains the "normal" or "expected" results
_____ independent variable	<b>L:</b> a detailed list of steps followed during the experiment
_____ dependent variable	<b>M:</b> studying what happened during the experiment; generally contains graphs and charts

What is the secret word? \_\_\_\_\_

What is my favorite color? \_\_\_\_\_

The answers to these 2 questions are in today's Journal and Welcome to Biology 30 information. If you cannot answer these **GO TO THE JOURNAL AND READ THE INTRODUCTORY INFORMATION!**