

# Scientific Method Quiz

Directions: Use the words in the word bank below and match them to their definition .

data  
conclusion  
experiment

scientific method  
observe

analyze  
hypothesis  
question

- \_\_\_\_\_ A step-by-step process used to conduct an experiment or investigation
- \_\_\_\_\_ What you want to know and can be answered through scientific investigation
- \_\_\_\_\_ A prediction or smart guess about what you think might happen.
- \_\_\_\_\_ A procedure used to test a hypothesis and determine whether or not it is correct
- \_\_\_\_\_ To watch carefully, and notice importance
- \_\_\_\_\_ Information gathered through scientific investigation
- \_\_\_\_\_ To carefully examine your observations and data to determine what you can learn from your experiment
- \_\_\_\_\_ A final statement about your results that states whether or not your hypothesis was correct.

Directions: Put the steps of the scientific method in order by numbering the items below from 1-5

- \_\_\_\_\_ Write a conclusion statement
- \_\_\_\_\_ Perform the experiment to test your hypothesis
- \_\_\_\_\_ Form a hypothesis or prediction about what might happen
- \_\_\_\_\_ Analyze your observations and data to see what you've learned.
- \_\_\_\_\_ Ask a question based on something you would like to know more about

Directions: Read the situations below and decide if the student is following the lab safety rules or not. If they are then write YES, if they are not then write NO.

- \_\_\_\_\_ Sally decides to taste the mixture she is working with in the lab.
- \_\_\_\_\_ Jake makes sure to wear his safety goggles while heating a solution.
- \_\_\_\_\_ Matthew carefully cleans up his work area and returns all materials to their place.
- \_\_\_\_\_ Sarah accidentally spills a liquid she is working with and quickly tells her teacher.
- \_\_\_\_\_ Brian does not listen to his teacher's directions and begins his experiment.
- \_\_\_\_\_ Annie and her partner are playing at their station when they have liquids heating.
- \_\_\_\_\_ As soon as Trey finished his experiment, he went to wash his hands.