

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

_____ Preform 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 googles 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.