

The final step of the Scientific Method is _____:

To test your hypothesis by doing a controlled experiment.

To do background research to find out what is known already.

To communicate the results of your experiment to other scientists.

To ask a question that is measurable.

The process of obtaining (getting) information by using the 5 senses is called...?

Direct observation

Inquiry

Sharing data

The scientific method

A good hypothesis allows you to make a testable set of procedures. Which of the following is an example of a good, testable hypothesis? (If I _____, then _____ will happen.)

What will happen if I mix baking soda and vinegar?

If I add salt to ice cubes, I think they will melt faster.

July is the seventh month of the year.

Where does snow come from?

What is the Scientific Method?

A scientific way to design a graph.

A process used by scientists to explore, make observations, and answer questions.

A list of materials for a science experiment.

A method for designing a product to sell.

The study of dinosaurs and how they digested their food.

An experiment is successful when some nugget of new information is learned, even if, in the end, the hypothesis is not supported by the results of the experiment.

True

False

Which of the following is an example of **qualitative** data?

The color of the fur of an animal...

The mating behavior of an animal...

The average number of offspring that an organism has...

The description of an odor that a flower gives off...

Which step of the scientific method involves learning background information, found by other scientists, on the topic you are investigating, before you actually investigate?

- Planning procedures
- Researching the topic
- Proposing a hypothesis
- Sharing your findings, data and conclusions

During an investigation, students discussed whether the data and observations they collected during the experiment supported their hypothesis. The students also worked through their data and organized the information into graphs. What step in the scientific method did they perform?

- Analyzing the data...
- Testing the Hypothesis...
- Researching their topic...
- Writing a conclusion...

What skill does a marine mammal scientist do when she listens to the sounds whales make before eating?

- Drawing conclusions
- Hypothesizing
- Making observations
- Interpreting/analyzing data

Science is.....

- The study of super-natural phenomena
- The act of working in a laboratory
- The study of the natural world
- The quest to invent new things

Fill in the blank: All science investigations start with

An _____ that leads to a _____ question.