

# Scientific Inquiry

Name \_\_\_\_\_  
Period \_\_\_\_\_

1. \_\_\_\_\_ is the investigation and exploration of natural events in order to solve problems or answer questions.
2. \_\_\_\_\_ is the study of living things.
3. \_\_\_\_\_ are the results of using one or more of your senses to gather information and taking note of what occurs.
4. An \_\_\_\_\_ is a logical explanation of an observation that is drawn from prior knowledge or experience.
5. \_\_\_\_\_ is a process that uses a variety of skills and tools to answer questions or to test ideas about the natural world.
6. Scientific inquiry often involves a series of steps that are used to solve a problem or answer a question. This series of steps is often called the \_\_\_\_\_.
7. A \_\_\_\_\_ is a possible explanation for an observation or answer to a scientific question that can be tested by scientific investigation.
8. A \_\_\_\_\_ is a statement of what will happen as a result of something else.
9. When performing an experiment, it is important to use a \_\_\_\_\_ in which only one variable is changed at a time.
10. \_\_\_\_\_ are any factors in an experiment that can change.
11. The factors in an experiment that do not change are called \_\_\_\_\_.
12. The one factor that is purposely changed by a scientist in order to test the hypothesis is called the \_\_\_\_\_.
13. The factor that is observed or measured during an experiment is called the \_\_\_\_\_.
14. A group that is used to study how a change in the independent variable changes the dependent variable is called an \_\_\_\_\_.
15. A controlled experiment may also have a \_\_\_\_\_, which is a group that contains the same factors as the experimental group, but the independent variable is not changed.

16. \_\_\_\_\_ are observations that don't involve numbers or measurements.

17. \_\_\_\_\_ are observations that are measurements, found using scientific tools or by counting the total number of objects in a group.

18. List the seven steps of the scientific method:

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_