

Scientific Method

1. What is science?
2. Define hypothesis and give an example of a possible hypothesis.
3. Compare and contrast variable and constant.
4. Compare and contrast independent and dependent variable.
5. Why do experiments usually require a control?
6. What does an observation involve?
7. What are the two types of observations, and give an example of each?
8. What is an inference?
9. Give an example of a scientific law?
10. What kinds of questions cannot be answered by science?
11. What are some scientific methods you use every day to answer questions or solve problems?
12. What skills do scientists use to find answers and solve problems?
13. What is scientific inquiry?
14. What are some of the observations that might be made in the study of oceanography?
15. Why do scientists study the ocean?

Scientific Method

Put the scientific method in number order:

- _____ Draw conclusion
- _____ Form a hypothesis
- _____ Communicate results
- _____ Test your hypothesis
- _____ Recognize the problem
- _____ Analyze the data
- _____ Gather information

Observations

Look at the pictures below. Make 2 qualitative and 2 quantitative observations for each picture. Make an inference about each picture.

