Marine Science and Biology Test 1 Study Guide

1. What is science?
2. Know and understand the 4 basic characteristics of science.
3. What is a hypothesis?
4. What are ways to test a hypothesis?
5. What is a systematic observation? How is one carried out?
6. What is an experiment?
7. What are the major differences between systematic observations and experiments? When would you do one rather than the other?
8. What is a control?
9. What is a variable?
10. How many variables can be tested in an experiment? Why?
11. What are the 2 types of variables?
12. Why must scientific studies be repeatable?
13. What is a theory? Why are theories so important in science?
14. Can science prove things? If not, why not?
15. What is a law? Why are laws less useful than theories?

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