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**Reading Worksheet 1.1: What is Science?**

**Read Chapter 1, Section 1 in your textbook and answer the following questions**

1. Why do scientists not “believe” in scientific facts or ideas?

1. What is science and how is it different from other ways of explaining how the world works?
2. What are natural laws and why are they so important (what do they show us)?
3. Why does science generally never “prove” anything?
4. What steps does scientific methodology involve and do people use these steps in everyday life?
5. Describe each step involved in a scientific investigation.
6. What is a control group?
7. What is the difference between an independent and a dependent variable?
8. What are some possible sources of error in an experiment?
9. Does doing one experiment always prove whether the hypothesis is right or wrong? Explain.
10. Why are experiments not always possible when trying to test a hypothesis?
11. What is a scientific theory and how is it different from the theories we talk about in everyday life?