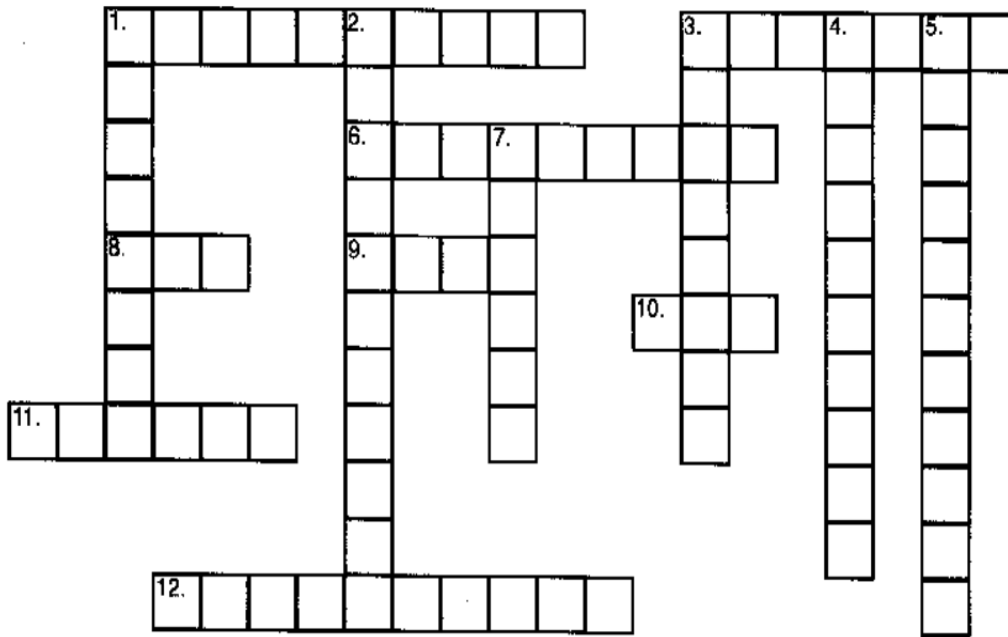


STUDY GUIDE

Chapter 1

Exploring Science

Solve the following crossword puzzle by using the clues provided.



Across

1. test of a hypothesis
3. the standard for comparison in an experiment
6. factor that depends on the value of the independent variable; _____ variable
8. abbreviation for chlorofluorocarbon
9. science that seeks knowledge rather than application
10. A rule of nature that sums up related observations and experimental results is a scientific _____ .
11. explanation based on many observations that are supported by experimental results
12. an educated guess about the likely solution to a problem

Down

1. The steps required to find a solution are usually obvious in a(n) _____ .
2. variable in an experiment that is adjusted by the experimenter; _____ variable
3. factor that doesn't vary in an experiment
4. applied science
5. process of using the senses to gather information
7. one part of the study of physical science

NAME _____ DATE _____ CLASS _____

REINFORCEMENT**Chapter 1****Exploring Science***Complete the following.*1. Place the following in logical order by writing the numbers **1** through **5** in the spaces provided.

_____ a. analysis and conclusion

_____ b. hypothesis

_____ c. procedure

_____ d. observations and data

_____ e. problem

2. Is an experiment an example of an exercise or a problem? Why? _____

3. Why is a control important in an experiment? _____

4. Why is it important to follow all directions in an experiment carefully? _____

5. What two articles of clothing should always be worn when working in a science laboratory?

*Match each safety symbol in **Column II** with its description in **Column I**. Write the letter of the correct symbol in the blank on the left.***Column I**

_____ 6. fire safety

_____ 7. electrical safety

_____ 8. sharp objects

_____ 9. eye safety

_____ 10. clothing protection

Column II