Name Date Class

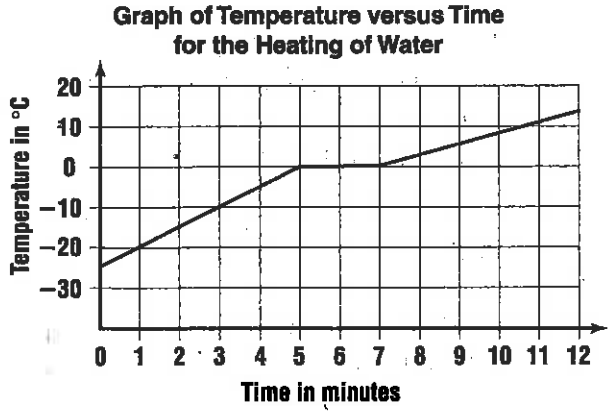
SECTION 3 Reinforcement

Communicating with Graphs

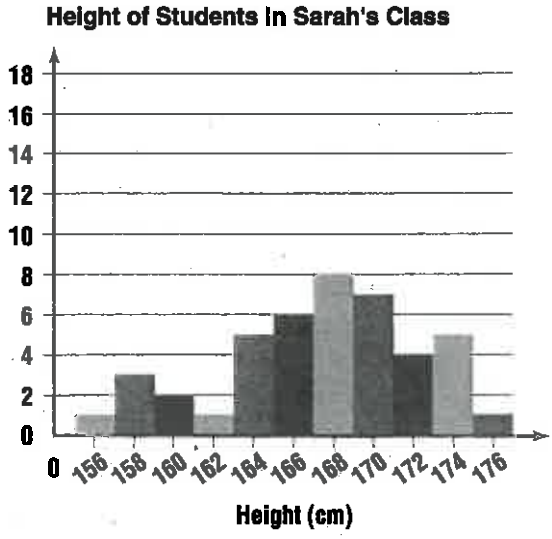
Chapter 1.3 Review

Directions: *Use the graphs below to answer the following questions.*

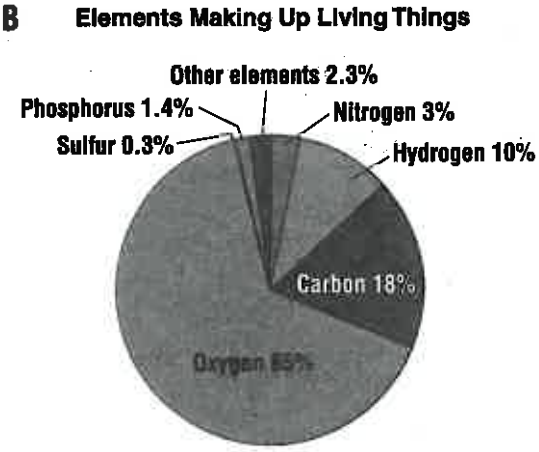
Graph A



Graph C



Graph B



1. What type of graph is shown in A? _____
2. What does graph A show? _____
3. What is the independent variable in graph A? _____
4. On what axis is the independent variable plotted? _____
5. On what axis is the dependent variable plotted? _____
6. What type of graph is graph B? _____
7. What information is shown in graph B? _____
8. What element makes up the largest part of living things? _____
9. What type of graph is graph C? _____
10. What information is shown on graph C? _____
11. What is the most common height for students in Sarah's class? _____

Name _____ Date _____ Class _____

Directed Reading for Content Mastery

Section 3 ▪ Communicating with Graphs
Section 4 ▪ Science and Technology

Directions: *Choose the term from the word list that best completes each statement. Write the term in the blank at the left of each statement.*

graph	*y*-axis	percentages
vertical	line	independent

_____ 1. A visual display of data or information is a _____.

_____ 2. In a line graph, the _____ axis is called the *y*-axis.

_____ 3. In a line graph, the dependent variable is plotted on the _____.

_____ 4. The type of graph that is useful for showing trends or continuous change is a _____.

_____ 5. Information in a circle graph is often shown as _____.

_____ 6. A variable that changes and affects the measure of another variable is called the _____ variable.

Directions: *Match the terms in Column II with the descriptions in Column I. Write the letter of the correct term in the blank at the left.*

Column I

_____ 7. require people to consider what is right and wrong

_____ 8. the knowledge or skills to perform a task

_____ 9. countries in which the basic needs for survival are met

_____ 10. group of people that share similar values and beliefs

_____ 11. a collection of objects, methods and procedures

_____ 12. one source of funding for developing technologies

Column II

a. society

b. private industris

c. technological system

d. moral and ethical issues

e. technology

f. industrialized nations

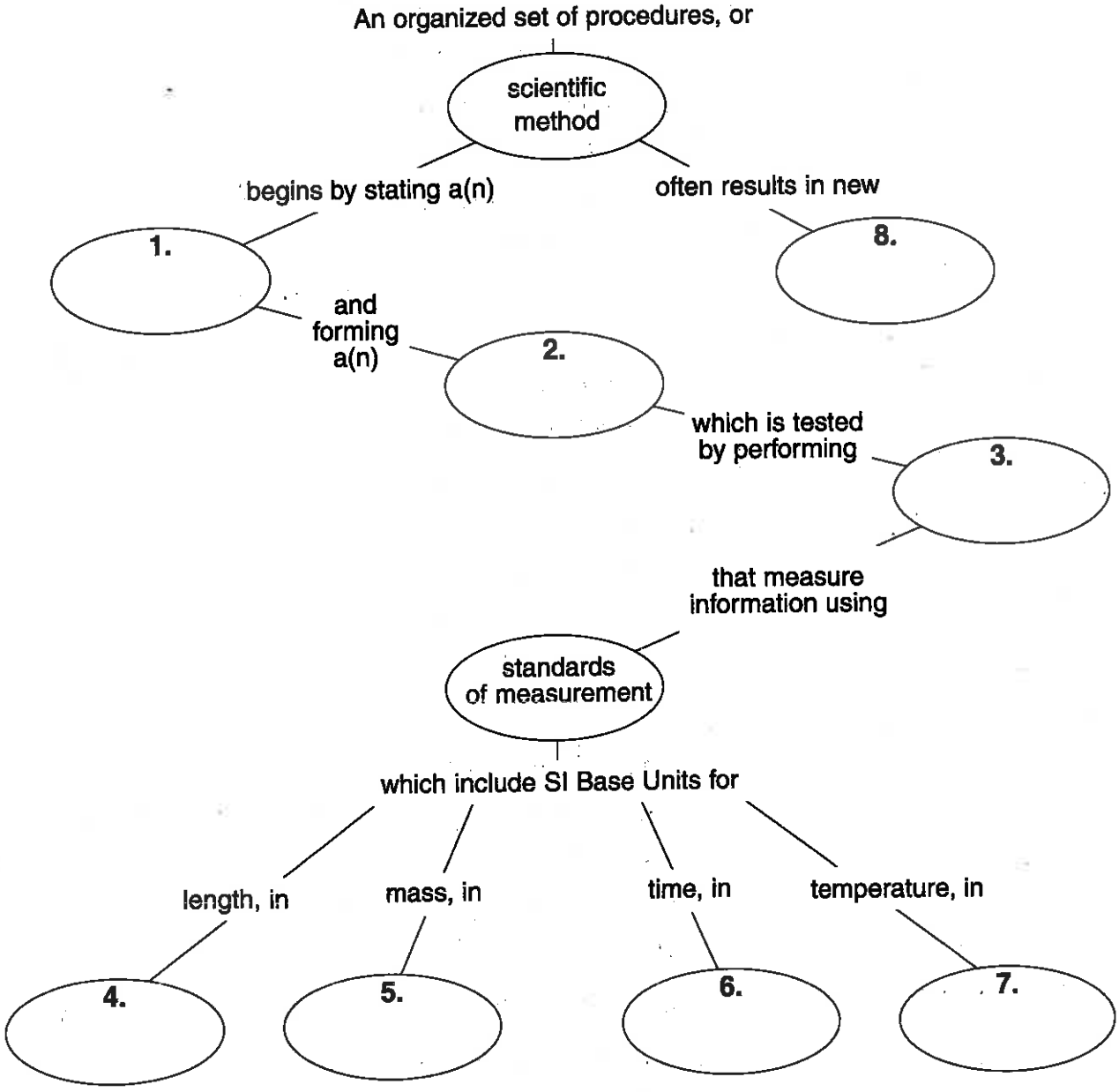
Name Date Class

Directed Reading for Content Mastery

Overview
The Nature of Science

Directions: *Complete the concept map using the following terms.*

hypothesis	**experiments**	**kelvin**
meters	**technology**	**seconds**
problem	**grams**	



Name _____ Date _____ Class _____

Chapter Review

The Nature of Science

Part A. Vocabulary Review

Directions: *Complete the following sentences using the terms listed below.*

model	**mass**	**graph**	**hypothesis**
standard	**dependent variable**		**independent variable**
technology	**theory**	**control**	**volume**
constant	**experiment**	**scientific law**	**society**

_____ 1. The factor in an experiment that is changed by the experimenter is the _____.

_____ 2. A visual display of information or data is a(n) _____.

_____ 3. An idea, event, or object is represented by a(n) _____.

_____ 4. A test of a hypothesis is a(n) _____.

_____ 5. A standard for comparison that is used in an experiment is a(n) _____.

_____ 6. A rule of nature that tells you what will happen under certain conditions is a(n) _____.

_____ 7. The independent variable in an experiment may cause a change in the _____.

_____ 8. The amount of space occupied by an object is called its _____.

_____ 9. A testable prediction is a(n) _____.

_____ 10. Another term for applied science is _____.

_____ 11. A variable that doesn't change in an experiment is called a _____.

_____ 12. An explanation based on many observations supported by experimental results is a(n) _____.

_____ 13. An exact quantity that people agree to use for comparison is a(n) _____.

_____ 14. A measurement of the quantity of matter is _____.

_____ 15. A group of people that share similar values and beliefs form a _____.