

SECTION

1

Study Guide

Introduction to the
Periodic Table

Chapter

4

Directions: Match the terms from the word bank with the descriptions below.

7	atomic mass	Mendeleev	Mt
17	Au	mercury	nonmetals
18	copper, tin, and iron	boron	periodic
55	gold and silver	metals	representative elements
	group	Moseley	transition elements

- _____ 1. a man who accurately predicted the properties of gallium, scandium, and germanium
- _____ 2. the number of columns in the periodic table
- _____ 3. a man who arranged the elements according to their atomic number
- _____ 4. elements in groups 13-12
- _____ 5. the number of elements named by 1830
- _____ 6. a brittle element that conducts electricity
- _____ 7. metals for weapons
- _____ 8. a metal named for the shining dawn
- _____ 9. the number of nonmetals
- _____ 10. the group of elements that contains those that are most important for life
- _____ 11. a group that includes metals, metalloids, and nonmetals
- _____ 12. the property of atoms first used to arrange them into a periodic table
- _____ 13. a metal named for scientist Lise Meitner
- _____ 14. a metal that is not a solid
- _____ 15. a pattern that repeats over and over is this
- _____ 16. elements that are reflective, ductile, malleable, and conducts heat and electricity
- _____ 17. metals for jewelry
- _____ 18. the number of rows, or periods, in the modern periodic table
- _____ 19. elements that share this have similar chemical properties

SECTION**Reinforcement****Introduction to the Periodic Table**

Directions: Use the following terms to label the diagram of an element key.

atomic number	atomic mass	element name	element symbol
1. _____			
2. _____			
3. _____			
4. _____			

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

- _____ 5. usually gases or brittle solids at room temperature and poor conductors of heat and electricity
- _____ 6. section on the periodic table composed of eight groups, including metals, metalloids, and nonmetals
- _____ 7. elements that have similar physical or chemical properties
- _____ 8. elements between metals and nonmetals on the periodic table
- _____ 9. row of elements in the periodic table whose properties change gradually and predictably
- _____ 10. section on the periodic table composed of Groups 3 through 12
- _____ 11. the number of protons in the nucleus of an element's atoms
- _____ 12. element that has luster, is a good conductor of heat and electricity, and is usually a solid at room temperature

Column II

- a. metalloids
- b. group
- c. representative elements
- d. metal
- e. nonmetal
- f. transition elements
- g. atomic number
- h. period