Name: Hour:

**Study Guide: Section 1.3**

**Completion**

*Complete each statement.*

1. Elements are arranged in the periodic table according to their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

2. If testing shows an element is a poor conductor of electricity, it is probably a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

3. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an element that has some characteristics of metals and some characteristics of nonmetals.

4. All known chemical elements are organizeed into groups based on similar chemical properties in the table.

5. The columns on the periodic table are called groups or families.

6. The horizontal rows on the periodic table are called .

7. If a substance is a metal, it is a good and heat conductor.

8. A is typically brittle and a poor conductor of heat and electricity.

9. Metalloids are often of electricity.

10. In general, chemical properties and the ability to to other atoms are common to elements within a single group on the periodic table.

11. Noble are generally unreactive.

*Use a periodic table to answer the following questions.*

12. Find the name for the element whose symbol is **Pb**. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. Find the name for the element whose symbol is **H**. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. Find the name for the element whose symbol is **P**. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

15. Find the name for the element whose symbol is **Al**. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

16. Find the symbol for the element helium. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

17. Find the symbol for the element neon. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

18. Find the symbol for the element iodine. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name:

19. In which period can you find the element iron? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

20. In which group can you find the element lithium? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

21. In which group can you find the element carbon? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Matching**

**On the line to the left of each symbol, write the letter of the correct element name.**

|  |  |
| --- | --- |
| a. | silicon |
| b. | sodium |
| c. | cobalt |
| d. | iron |
| e. | tin |
| f. | tungsten |
| g. | chlorine |
| h. | gold |
| i. | copper |
| j. | silver |

\_\_\_\_ 22. W

\_\_\_\_ 23. Cl

\_\_\_\_ 24. Co

\_\_\_\_ 25. Si

\_\_\_\_ 26. Na

\_\_\_\_ 27. Cu

\_\_\_\_ 28. Fe

\_\_\_\_ 29. Au

\_\_\_\_ 30. Sn