

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

**Answer the following questions in the space provided regarding the basics of the periodic table.**

1. Mendeleev arranged the known elements at the time by \_\_\_\_\_  
\_\_\_\_\_
2. The modern periodic table is arranged by \_\_\_\_\_
3. Elements that are good conductors of heat and electricity are \_\_\_\_\_
4. Elements that are poor conductors of heat and electricity are \_\_\_\_\_
5. A horizontal row of elements in the periodic table is called a(n) \_\_\_\_\_
6. A vertical column of elements in the periodic table is called a(n) \_\_\_\_\_
7. The ability of a substance to be hammered or rolled into thin sheets is called \_\_\_\_\_  
\_\_\_\_\_
8. At room temperature, most metals are in the \_\_\_\_\_ phase.
9. Name three characteristics of most nonmetals  
a) \_\_\_\_\_ c) \_\_\_\_\_  
b) \_\_\_\_\_
10. Name three characteristics of most metals  
a) \_\_\_\_\_ c) \_\_\_\_\_  
b) \_\_\_\_\_
11. What property or characteristic determines whether metalloids (semi-metals) act like a metal or non-metal? \_\_\_\_\_
12. Where are metalloids found on the periodic table? \_\_\_\_\_
13. What do elements of the same group in the periodic table have in common?  
\_\_\_\_\_  
\_\_\_\_\_
14. What do elements of the same period in the periodic table have in common?  
\_\_\_\_\_  
\_\_\_\_\_
15. You are trying to manufacture a new material, but you would like to replace one of the elements in your new substance with another element that has similar chemical properties. How would you use the periodic table to choose a likely substitute?  
\_\_\_\_\_  
\_\_\_\_\_