

Periodic Table Worksheet

Name _____ Date _____ Per _____

1. Tell which element is located in the following groups and periods.

- | | |
|---------------------------------|---------------------------------|
| a. <u>Sn</u> group 4A, period 5 | h. <u>Po</u> group 16, period 6 |
| b. <u>Be</u> group 2, period 2 | i. <u>Cl</u> group 17, period 3 |
| c. <u>W</u> group 6B, period 6 | j. <u>Ag</u> group 11, period 5 |
| d. <u>He</u> group 8A, period 1 | k. <u>Pb</u> group 5B, period 4 |
| e. <u>Zr</u> group 4B, period 5 | l. <u>Pt</u> group 10, period 6 |
| f. <u>Zn</u> group 12, period 4 | m. <u>Al</u> group 3A, period 3 |
| g. <u>Fr</u> group 1, period 7 | n. <u>Bi</u> group 15, period 6 |

2. For each of the elements above, label as a metal, nonmetal, metalloid.

- | | |
|---------------------|---------------------|
| a. <u>non metal</u> | h. <u>metalloid</u> |
| b. <u>metal</u> | i. <u>nonmetal</u> |
| c. <u>metal</u> | j. <u>metal</u> |
| d. <u>nonmetal</u> | k. <u>metal</u> |
| e. <u>metal</u> | l. <u>metal</u> |
| f. <u>metal</u> | m. <u>metal</u> |
| g. <u>metal</u> | n. <u>metal</u> |

3. For each of the elements above (from #1), label the family (alkali, transition, etc).

- | | |
|--------------------------------|----------------------------|
| a. <u>Carbon family</u> | h. <u>oxygen family</u> |
| b. <u>alkaline earth metal</u> | i. <u>halogen</u> |
| c. <u>transition metal</u> | j. <u>transition metal</u> |
| d. <u>noble gas</u> | k. <u>transition metal</u> |
| e. <u>transition metal</u> | l. <u>transition metal</u> |
| f. <u>transition metal</u> | m. <u>boron family</u> |
| g. <u>alkali metal</u> | n. <u>nitrogen family</u> |

4. Vertical columns on the periodic table are called groups / families.

5. Horizontal rows on the periodic table are called periods.

6. The elements in groups 3 through 12 are called the transition metals.

7. The elements in group 1 are called the alkali metals.

8. The elements in group 2 are called the alkaline earth metals.

9. The elements in group 18 are called the noble gases.

10. The elements in group 17 are called the halogens.

11. The elements in group 1 are the most reactive metals.

12. The elements in group 17 are the most reactive nonmetals.

13. The elements in group 18 are very unreactive.

14. The elements in group 1 react very violently with water.