PERIODIC TABLE INSTRUCTIONS

Objective:       To be able to use the periodic table to identify and classify elements and to use the periodic table to predict the behavior of elements USE COLORED PENCILS

Procedure:

1. Number the groups.
2. Number the periods
3. Draw a heavy black line with marker between the metals and nonmetals.
4. Write the name of each of the following groups above the number:

Group 1          alkali metals

Group 2          alkaline earth metal

Group 3-12    (collectively) transition metals

Group 17        halogens

Group 18        Noble gases

Non Metals – C, N, O, F, P, S, Cl, Se, Br, I

Metalloids- B,Si,Ge, As, Sb, Te, At

P-Block Metals- Al, Ga, In, Sn, Tl, Pb, Bi, Po

1. Outline the two rows at the bottom of the chart:  lanthanides and actinides
2. Outline each element that exists as a gas at ordinary conditions in RED.
3. Outline each element that is a solid at ordinary conditions in BLACK.
4. Outline each element that is a liquid at ordinary condition in BLUE.
5. Outline each element that is a man-made element as an outline. Example: **Pm**
6. Use the following chart to color the periodic table.

Non-metals- white

Metalloids- gray

P-block Metals- brown

Halogen-                                 blue

Noble gases-                       yellow

Alkali metals-                        purple

Alkaline earth metals-            red

Transition elements-   green

Lanthanides                           orange

Actinides                                light blue

**Make sure you color your table lightly so these outlines can be seen!**

**6-9 Outline KEY:**

RED {GAS}

        H, He, N, O, F, Ne, Cl, Ar, Kr, Xe, Rn, Sm, Eu, Gd

BLUE {LIQUID}

        Ga, Br, Cs, Hg, Fr

GREEN {RADIOACTIVE}

        Tc, Po, At, Rn, Fr, Ra, Rf, La, Ce, Pr, Nd, Pm, Ac, Th, Pa, U, Np, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, Lr

**PURPLE {SYNTHETIC}**

**Tc, Pm, Np, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, Lr**

BLACK {SOLID}

        Li, Be, B, C, Na, Mg, Al, Si, P, S, K, Ca, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ge, As, Se, Rb, Sr, Y, Zr, Nb, Mo, Ru, Rh, Pd, Ag, Cd, In, Sn, Sb, Te, I, Ba, Hf, Ta, W, Re, Os, Ir, Pt, Au, Tl, Pb, Bi, Po, At, Ra, Rf, Ha, Sg, Bh, Hs, Mt, Tb, Dy, Ho, Er, Tm, Yb, Lu,