

## Getting To Know the Periodic Table

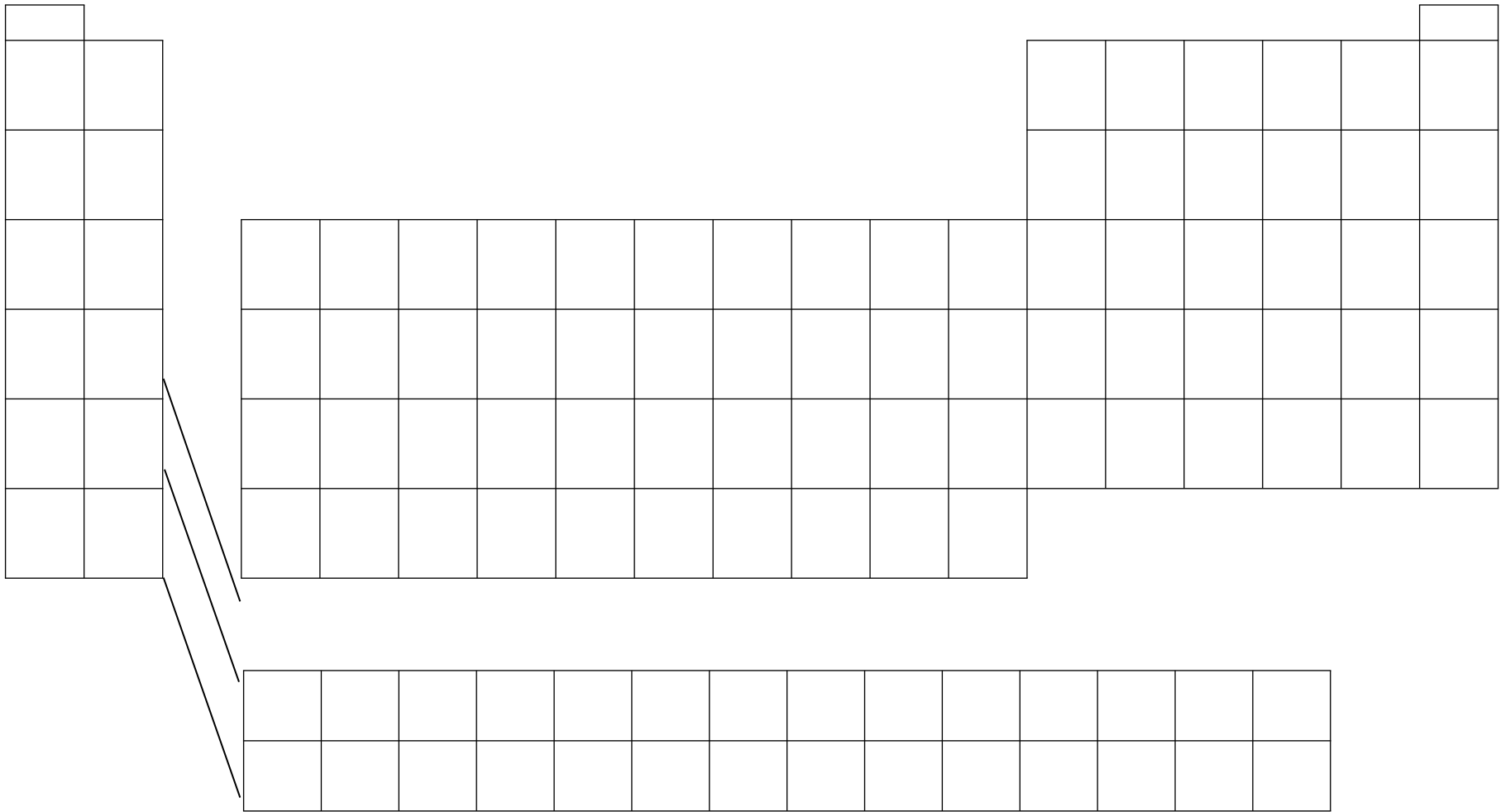
Objective: To be able to use the periodic table to identify and classify elements and to use the periodic table to predict the behavior of elements

Procedure: Follow these steps **IN ORDER** to correctly complete this activity!!!

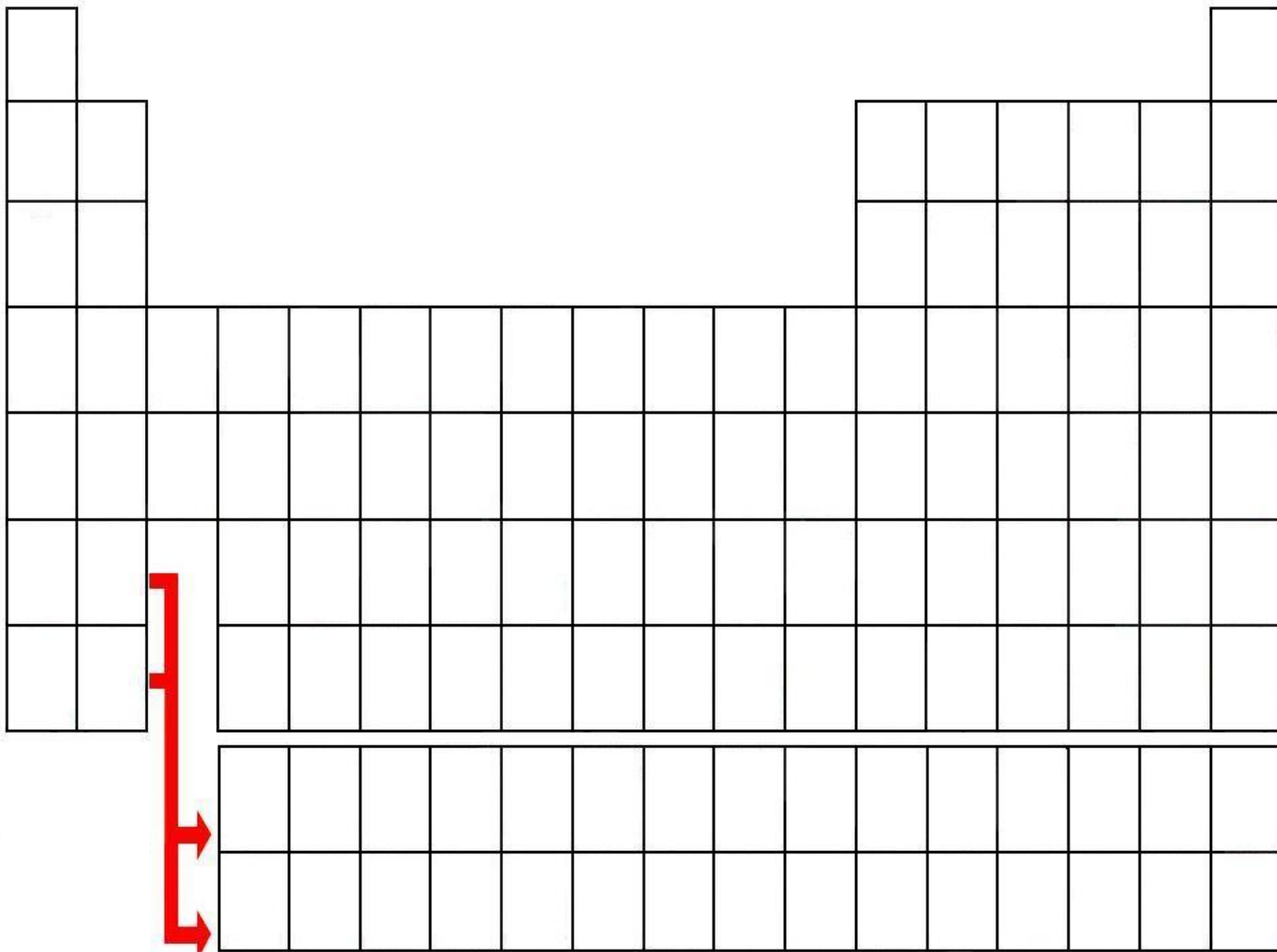
1. Number the groups (There are 18)
2. Number the periods (There are 7)
3. Draw a heavy **black** line between the metals and nonmetals—this looks like stair-steps! (look at text pg.120, Fig. 22)
4. Write the name of each of the following groups above the number:  
Group 1      Alkali metals  
Group 2      Alkaline earth metal  
Group 3-12   (collectively) transition metals  
Group 17     Halogens  
Group 18     Noble gases
5. Place the **atomic number** for each element in the **top left of each box**.
6. Write the **symbol** of each element that exists as a **gas** at ordinary conditions in **RED**.
7. Write the **symbol** of each element that is a **solid** at ordinary conditions in **BLACK**.
8. Write the **symbol** of each element that is a **liquid** at ordinary condition in **BLUE**.
9. Write the **symbol** of each element that is a **man-made** element as an **outline**. \*\*Example: Pm
10. Use the following chart to **color the periodic table (color the boxes of the elements)**:

Halogens	blue
Noble gases	yellow
Alkali metals	purple
Alkaline earth metals	red
Transition elements	green
Lanthanides	orange
Actinides	light blue
11. **Outline** the element's box in **dark green** if it is **RADIOACTIVE** in its most common form.





**NAME:** \_\_\_\_\_ **Hr.** \_\_\_\_\_



## ***KEY:***

### **GAS {red}**

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

### **LIQUID {blue}**

Br, Hg

### **SOLID {black}**

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, Sg, Bh, Hs, Mt, Tb, Dy, Ho, Er, Tm, Yb, Lu, Uuu, Uub, Sm, Eu, Gd, Ga, Cs, Fr

### **RADIOACTIVE {element's box OUTLINED in GREEN}**

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

### **MAN-MADE / SYNTHETIC {OUTLINED symbol}**

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