**PLEASE DO NOT WRITE ON THIS PAPER!**

**TURN IT IN BEFORE YOU LEAVE!**

**Color-Coded Periodic Table Activity Directions**

**Directions**: Be sure to follow all instructions carefully and completely! Use your textbook **(the back cover and pp. 177-181 will be very useful!)** and **any other resources** **(ptable.com is a great website)** to help you complete the periodic table.

1. **Circle the atomic number** of the elements that exist as a **gas** at room temperature.
2. **Box the atomic number** of the elements that exist as a **liquid** at room temperature.
3. **Draw (darken in) the staircase** that separates the metals from the nonmetals (through the metalloids).
4. Use the following colors (or pick your own) to identify the various sections of the periodic table.

## Hydrogen = blank (white)

## Alkali Metals = green

* 1. **Alkaline Earth Metals = brown**
  2. **Halogens = pink**
  3. **Noble Gases = yellow**
  4. **Metalloids = orange**
  5. **Transition Metals = purple**
  6. **Lanthanide Series = red**
  7. **Actinide Series = blue**

1. **Make a color KEY in the large open region showing all the colored groups assigned in #4, then glue the completed periodic table into your notebook.**
2. Answer the following questions in your notebook on the page after your colored periodic table:
   1. **Define** the following vocabulary words as they are related to the periodic table:

Period -

Group -

* 1. What are the characteristics of a metal, nonmetal, and metalloid?
     + Metal-
     + Nonmetal –
     + Metalloid-
  2. Classify the following elements as **a metal, metalloid, or nonmetal:**
     + Scandium
     + Iodine
     + Hydrogen
     + Rhodium
     + Arsenic
     + Silicon
  3. Classify each element above with their more **specific classification/family name** if available

(i.e. alkali metal). If there is not a different family name for the element, write “none.”

* + - Scandium
    - Iodine
    - Hydrogen
    - Rhodium
    - Arsenic
    - Silicon