Periodic Table Coloring Activity

You have been given a black and white periodic table that needs some color according to the following directions. You will find the following page in your text book helpful: Appendix E. Back of book page A-24

You may use any colors you like unless specified. Like the diagrams in your book, make a color key so your periodic table may be accurately read. Some boxes may be shaded multiple colors – just make sure you can see them all! Have fun and make them pretty. You don’t want to stare at an ugly periodic table 😊

**1. State of Matter at Room Temperature (solid, liquid, or gas)**

• There are two elements that are liquid at room temperature: Hg and Br. Using a blue color, outline the symbols.

• 11 elements exist as gases at room temperature. Outline their symbols using a red color

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

• The remaining elements are solid at room temperature – leave those alone.

**2. Metals vs. Nonmetals (Page A-24)**

• With a dark color, add the “stair step” pattern that starts under Boron and extends down to Po and At. This is the division line between metals and nonmetals.

• Choose any color and outline the area where nonmetals are found (don’t forget about Hydrogen!)

• Choose a different color and outline the area in the periodic table where the metals are found.

**3. Metalloids**

• Choose any color of a color pencil or crayon and shade in the following elements: B, Si, Ge, As, Sb, Te, Po, and At (for At only color half the box). These elements are called metalloids and exhibit both metallic and nonmetallic properties.

**4. Specific Families and Blocks (use pg A-24 to help)**

• Using color pencils or crayons color each of the following a different color

* Alkali Metals
* Alkaline Earth Metals
* Transition Metals
* Other metals or Inner Transition Metals
* Halogens
* Noble Gases
* All the rest of the nonmetals (other nonmetals) not in a named family (don’t forget about Hydrogen!)

\*Should have 12 different color types and items in your Key

COLOR KEY:

* Liquid at room temperature
* Gas at room temperature
* Nonmetals (outline)
* Metals (outline)
* Metalloids
* Alkali Metals
* Alkaline Earth Metals
* Transition Metals
* Other metals or Inner Transition Metals
* Halogens
* Noble Gases
* All the rest of the nonmetals (other nonmetals) not in a named family (don’t forget about Hydrogen!)