

## Element Classes

Today you will be modifying your own periodic table, including information on the classes of elements.

*Objective: Students know how to use the periodic table to identify metals, metalloids, nonmetals, halogens, noble gases, alkali metals, alkaline earth metals and transition metals.*

You will develop your own method of identifying each of the element groups or classes above, and you will include a key (or legend) on your table to assist others in identifying them as well.

- 1) Make a bold “staircase” to separate the metals from the nonmetals.
- 2) Color code the following groups (families)
  - Alkali metals
  - Alkaline earth metals
  - Halogens
  - Noble gases
- 3) Color code these element classes:
  - Transition metals
  - Metalloids, also called “Semi-metals” (B, Si, Ge, As, Sb, Te, Po)
  - Non-metals (H, C, N, O, P, S, Se)
- 4) Complete the “color key in the upper left corner of your table
- 5) Identify each of the following areas of the table
  - “s-block”
  - “p-block”
  - “d-block”
  - “f-block”
- 6) Test Your Table
  - a) Compare your table with those produced by your class mates.
  - b) Attempt the “[Element Classes](#)” interactive review activity on my website, using only your periodic table.