

Name: _____ Date: _____ Period: _____

Periodic Table

- ★ Scientists have identified 90 naturally occurring elements, and created about 28 others.
- ★ The elements, alone or in combinations, make up our bodies, our world, our sun, and in fact, the entire universe.
- ★ The periodic table organizes the elements in a particular way. A great deal of information about an element can be gathered from its position in the period table.
- ★ For example, you can predict with reasonably good accuracy the physical and chemical properties of the element. You can also predict what other elements a particular element will react with chemically.

★ Properties of Metals

- Metals are good _____ of heat and electricity.
- Metals are _____.
- Metals are _____ (can be stretched into thin wires).
- Metals are _____ (can be pounded into thin sheets).
- A chemical property of metal is its reaction with water which results in _____.

★ Properties of Non-Metals

- Non-metals are _____ of heat and electricity.
- Solid non-metals are _____ and break easily.
- They are _____.
- Many non-metals are _____.

★ Properties of Metalloids

- Metalloids (metal-like) have properties of both _____.
- They are solids that can be shiny or dull.
- They conduct heat and electricity better than non-metals but not as well as metals.
- They are ductile and malleable.

★ Groups

- Columns of elements are called _____ or families.
- Elements in each family have _____ but not identical properties.
- For example, lithium (Li), sodium (Na), potassium (K), and other members of group 1 are all soft, white, shiny _____.
- All elements in a family have the same number of _____.

★ Periods

- Each horizontal row of elements is called a _____.
- The elements in a period _____ alike in properties.
- In fact, the properties _____ across any given row.
- The first element in a period is always an extremely _____ solid. The last element in a period, is always an _____ gas.

Family Name	Location on Periodic Table	Examples	Properties
Halogens			
Inert Gases			
Metals			
Alkali Metals			
Alkaline Earth			
Transition Metals			
Lanthanide			
Actinide			