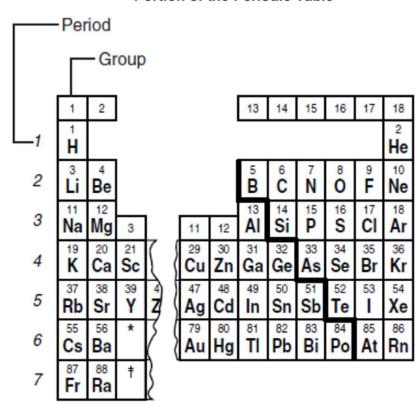
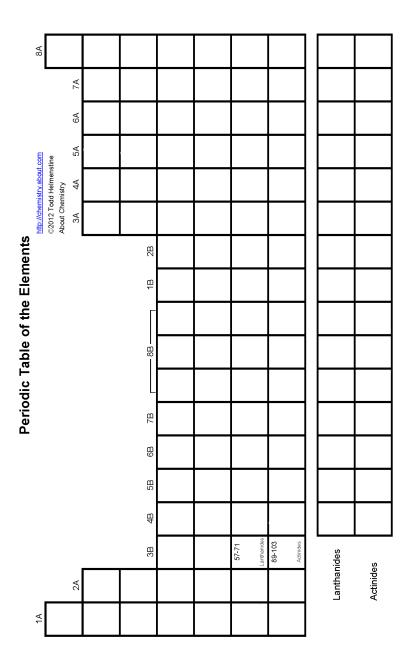
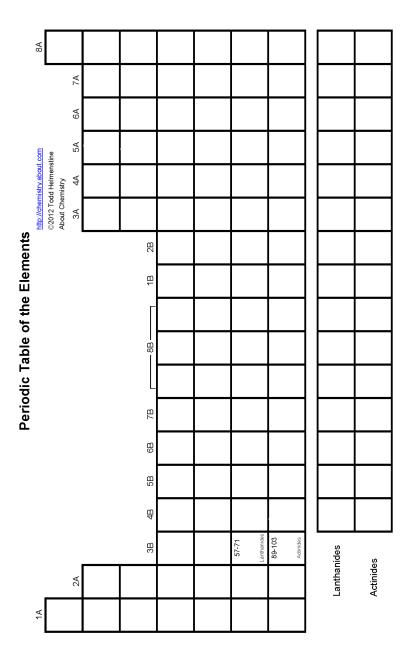
### Portion of the Periodic Table



Tŀ	e periodic table is organized by:
	1
	2
	3
Le	ts take a closer look at each.
1.	Atomic Number:
	The atomic number is the number of
	in the nucleus of the atom.
	Elements are arrange in
	proton order on the periodic table.
2.	Atomic Structure:
	The elements in the same <b>column</b> have the same
	number of These
	columns on the periodic table are called
	or families. All elements in a
	Group have the number of valence
	electrons.
	The elements in the same row have the same number of
	energy These rows are called
	All elements in a <b>Period</b> have
	the number of energy shells.



3.	<b>Chemical and Physical Properties:</b>
	Lets look at chemical properties first. Chemical
	properties describe an elements ability to change into
	something new. It does this by forming compounds.
	is a chemical property that
	determines how elements will react with other elements
	to form compounds.
	What makes an element reactive?
	The number of
	When outer shells are full, for example the Noble
	Gases, atoms are
	When outer shells are NOT full, the atom will be
	,
	The <b>MOST</b> reactive metals are in Groups and
	These Groups are known as
	because they easily their valence
	electrons.
	The MOST reactive nonmetals are in Groups and
	<del>.</del>
	These Groups are known as
	because they easily electrons.



## 3. Chemical and Physical Properties:

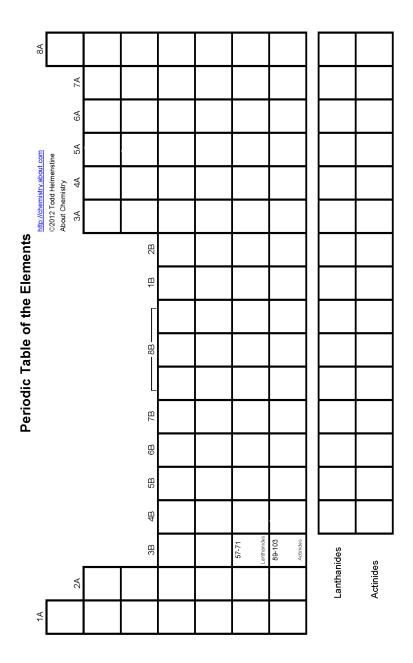
Now lets look at **physical properties**. Some important physical properties include **density**, state, color, odor, solubility, **luster**, hardness, **conductivity**, and **malleability**.

These properties allow the periodic table to be divided into areas of **metals**, **metalloids**, and **nonmetals**.

Metals	
Most elements are	·
Physical Properties	
Luster	
	of heat and electricity.
	(heavy for size)
Malleable	
Chemical Propertie	s:
Tend to	electrons.
Nonmetals	
Characteristics are	of metals.
Physical Properties	<b>:</b>
No Luster	
	conductor of heat and electricity.
	(light for size)
Brittle	
Not malleable	
Chemical Propertie	es:
Tend to	electrons.

### **Metalloids**

Metalloids have properties of both metals and nonmetals.



# **Periodic Table of the Elements**

