Jumpstart

Take out your periodic table.

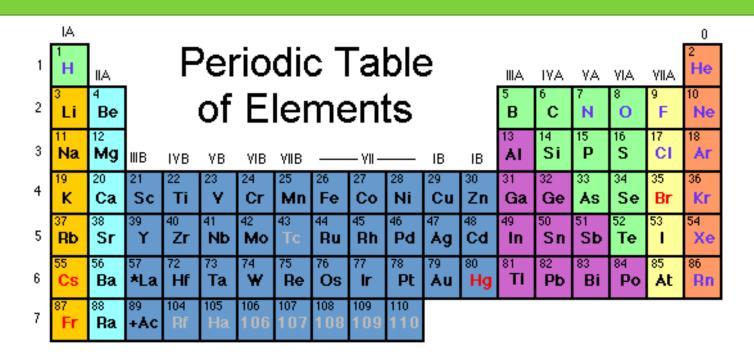
Work on these questions quietly by yourself. When you finish then check your answers with your neighbor.

- 1) Write 3 sentences about why the periodic table is set up how it is.
- 2) Identify each element as an alkali metal, alkaline earth metal, transition metal, halogen, or noble gas

- a) Lithium b) Krypton c) Cobalt d) Barium e) Chlorine
- 3) Give 1 example of elements for each category that are NOT used in #2
 - a) noble gases

- c) halogens
- e) alkali metals
- b) alkaline earth metals d) transition metal

Structure of the Periodic Table



*Lanthanide Series

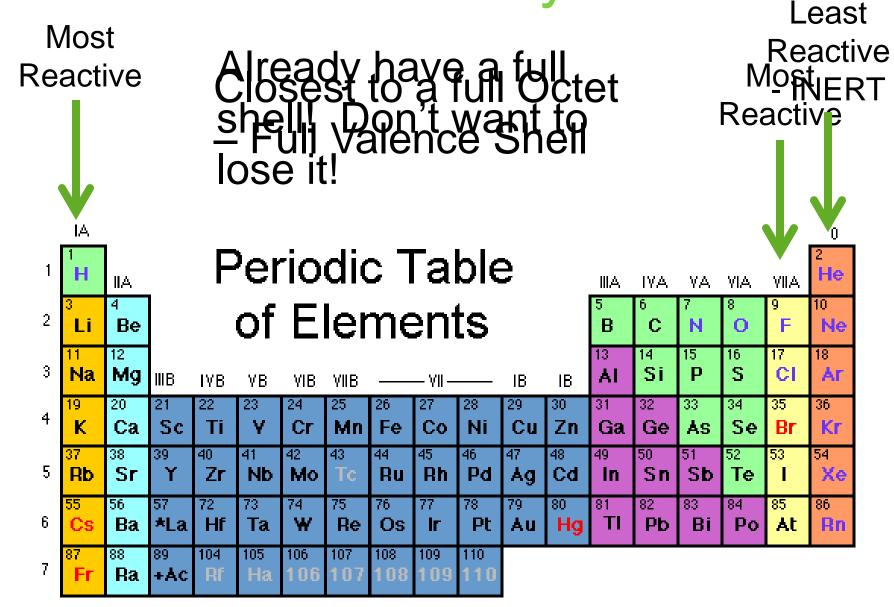
+ Actinide Series

58	59	60	61	62	63	64	65	66	67	68	69	70	71
Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
90	91	92 D	93	94	95	96	97	98	99	100	101	102	103
Th	Pa		Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

Reactivity

Has to do with electron configuration

Reactivity



Elements in the same group have similar behaviors

Because they have the same number of valence electrons!!!

Reactivity in Groups

- Metals more reactive as you go DOWN
 - Easier to lose electrons because valence electrons are further away from nucleus
- Non-metals more reactive as you go UP
 - Smaller the atom the more it wants an electron to gain

Brainiac Video

Disposal of Sodium