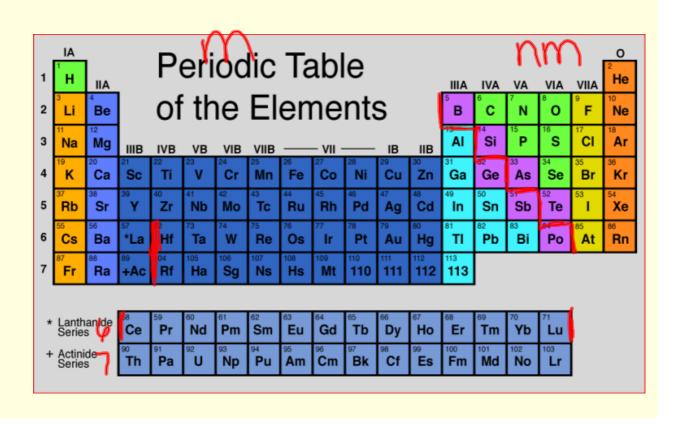
Periodic Table Review

Metals vs. Nonmetals



Parts of an Atom

The smallest part of an element is called the <u>atom</u>.

The atom is comprised of three types of subatomic particles: **protons, neutrons and electrons**.

<u>Protons</u>: are 'heavy', <u>positively charged</u> (p⁺) particles found in the nucleus

• the number of protons is equal to the atomic number

<u>Neutrons</u>: are neutral particles that have the same mass as a proton and are found in the <u>nucleus</u>.

What does neutral mean??

Electrons: are negatively charged (e⁻) particles that circle or orbit the nucleus at different energy levels.

- The particles have almost no mass.
- The farther away from the nucleus an electron is, the higher the energy level.
- atoms are electrically neutral, so the number of p⁺ equals the number of e⁻
- Bohr diagrams can be drawn to represent the arrangement of electrons in various levels or orbits
- each orbit has a definite number of electrons

the first level can have two the second can have eight the third can have eight

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What is an atom?

Protons?

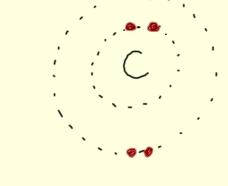
Neutrons?

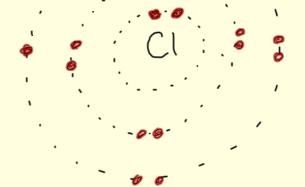
Electrons?

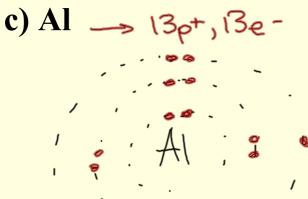
Atomic Models

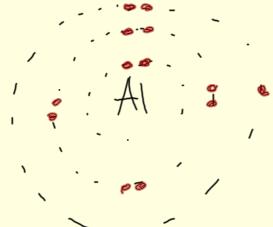
Draw a Bohr diagram for:

a)
$$C \rightarrow 6p^+, 6e^-$$









Bohr Diagram worksheets