## A Planetary Model of the Atom



Niels Bohr, suggested the following:

- -electrons can move around the nucleus in nearly circular orbits
- -each electron has a specific amount of energy
- -the farther away from the nucleus the greater the amount of energy
- -electrons cannot exist 'between' these orbits, but can move up and down from one orbit to another
- -the order of filling these orbits is 2, 8, 8 for the the first three orbits
- -electrons are more stable at lower energy, closer to the nucleus

Nov 8 - 8:53 PM

Bohr Diagrams the element symbol is written

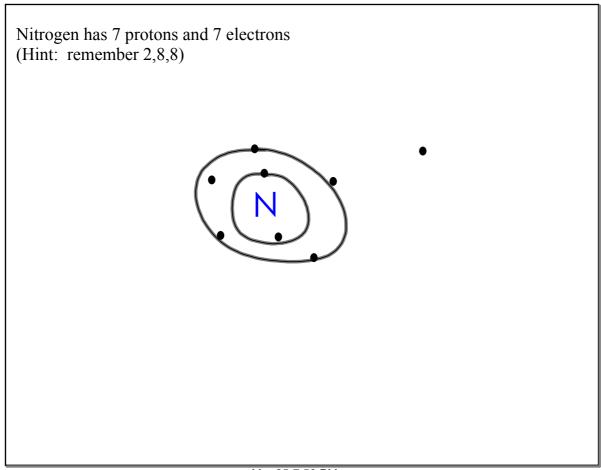
in the center and the electrons are 'filled' into the orbits around this nucleus

Example:

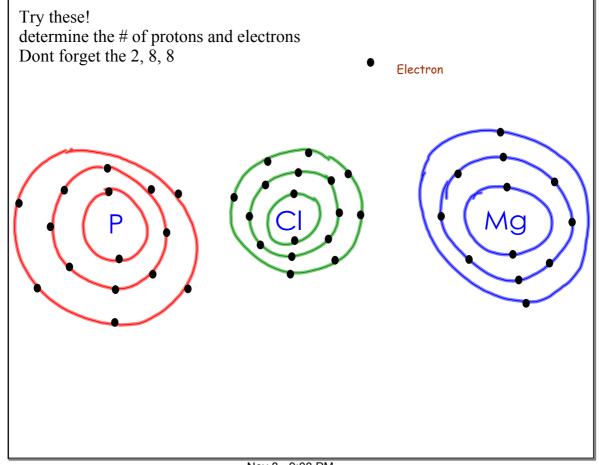
Hydrogen has 1 proton, and 1 electron

Electron





Mar 25-7:50 PM



Nov 8 - 9:08 PM