Drawing Bohr Models:

1. Determine the number of protons, neutrons, and electrons:

P+ = atomic number

P+ = e- because the atoms are neutral in charge

n = atomic mass – p+

- 2. Draw a circle for the nucleus and write the number of p+ and n inside.
- 3. Draw the correct number of circles to represent the number of energy levels needed in order to place the electrons around the nucleus.

Level	Maximum number of electrons
1	2
2	8
3	18
4	32
5	32
6	32
7	32

Each level has a maximum level of electrons that it can hold.

<u>In levels 3-7, only 8 electrons will be placed in the level to begin with.</u> More can be added only after 2 electrons are placed in the next level.





No matter what the maximum number of electrons is for that level, the outermost level will NEVER have more than 8 electrons.

Practice: On your own paper draw the Bohr model for the following atoms

Boron	Argon	Bromine
Fluorine	Potassium	Strontium
Aluminum	Nickel	
Phosphorus	Zinc	