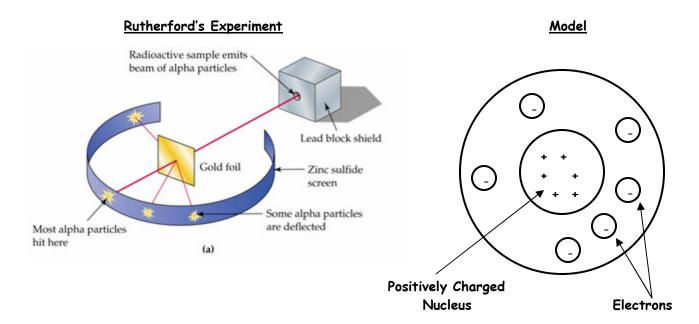
Atoms - Building Blocks of Matter

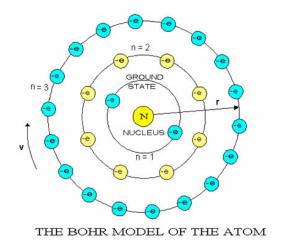
- I. Structure of the Atom
- A. Dalton's Model
- All elements are composed of atoms. Atoms are invisible and indestructible particles.
- Atoms of the same element are exactly alike.
- Atoms of different elements are different.
- Compounds are formed by the joining of atoms of two or more elements
- B. Rutherford's Model



Rutherford proposed that an atom had a small, dense, positively charged center that repelled his positively charged particles. He called this center of the atom the "nucleus".

a. What other information did Rutherford discover from his experiment?

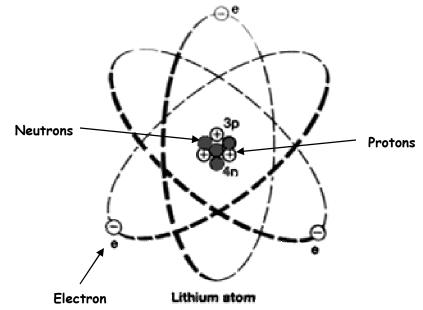
C. Bohr's Model



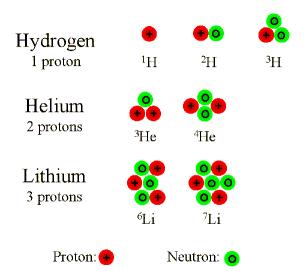
a. State an observation of the Bohr Model above.

b. Define: Bohr Model -

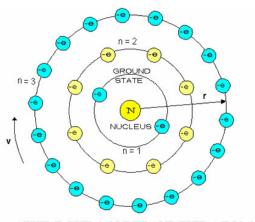
- II. The Structure of an Atom
- A. Subatomic Particles
- a. State the locations of the subatomic particles.



- b. Define:
- 1. Nucleus -
- 2. Protons -
- 3. Atomic Mass -
- 4. Neutrons -
- 5. Atomic Number -
- 6. Electron -
- B. Isotopes
- a. State an observation of the diagram below.



- b. Define: Isotope -
- C. The Electrons
- a. State an observation of the atom diagram belov



b. Define: Energy Levels -

THE	BOHB	MODEL	OF THE	ATON

1 st Fner	av Level	=
1 st Fner	ay Level	=

D. Comparison of Subatomic Particles

Particle	Mass (amu)	Charge	Location
Proton			
Neutron			
Electron			