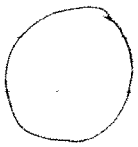
What you can Learn

Different elements give off different amounts of energy.
Different elements have different amounts of electrons.

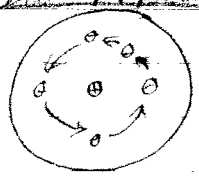
Electron (e^-)	Proton	Neutron
Outside Nucleus Orbiting? Flying around nucleus	In Nucleus	In Nucleus
Not Dense, Not Heavy ≈ 1/1000 Amu	Dense, ↑Mass, ↓Volume (small) ≈ 1 Amu (Atomic Mass Unit)	Dense, ↑Mass, ↓Volume (small) ≈ 1 Amu

Heisenberg uncertainty principle
"You can know how fast (e^-) is going or where it is, but not both."



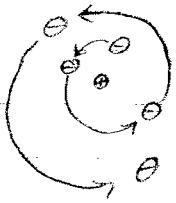
° general area where they think it is, but

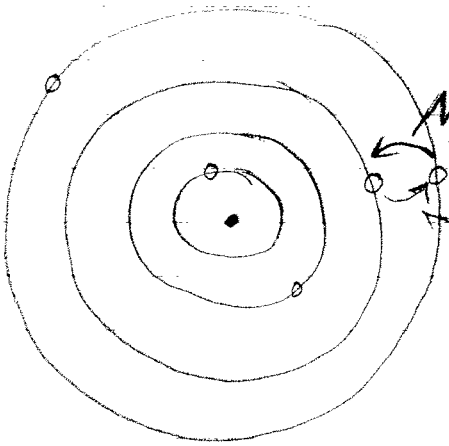
New Model of Atom



Move faster
closer or farther from nucleus.
bigger orbit.

David & Goliath story





not as far to jump, so less energy is released.