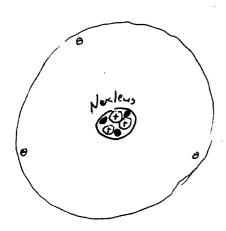
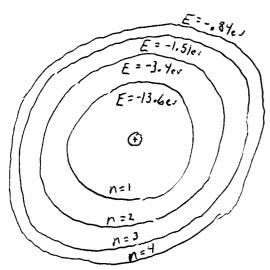
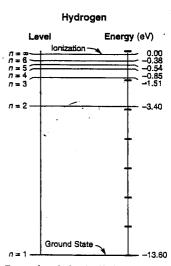
Review for Atomic Structure

1) Understand the Basic "Planetary Model" of the atom. Where are the Protons & Neutrons, Where are the Electrons. What is the charge In Coulombs of a Proton, or Electron, What is the mass of each?



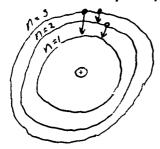
2) What was the newer Bohr Model of the atom? What problems did this model solve? What does the negative energy at each allowed energy level state mean? When absorbing energy the electron can totally break free or just jump into a higher level, Be able to figure out how much needs to be absorbed for these processes.

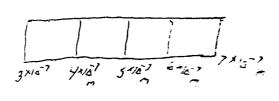




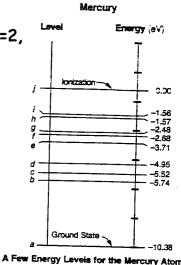
Energy Levels for the Hydrogen Atom

3) When atom starts from a higher "excited" energy level state it eventually falls back down and makes the bright line spectrum by giving off photons. Be able find the energy of these photons in electron-Volts and switch over to joules. Be able to use $E=hf=h(c/\lambda)$ to find frequency wavelength or color.



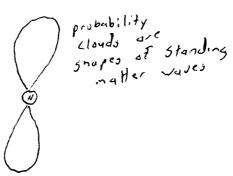


4) Be aware you could get the Mercury atom. Instead of n=1, n=2, It's a, b, c but everything else is the same.



5) Know Matter Waves, & The Uncertainty Principle a little. Know how These ideas lead into allowed and disallowed energy levels, and probability cloud model of atom.





6) Know small sub-atomic particles can be shown to do diffraction & interference which shows they have a wave quality





