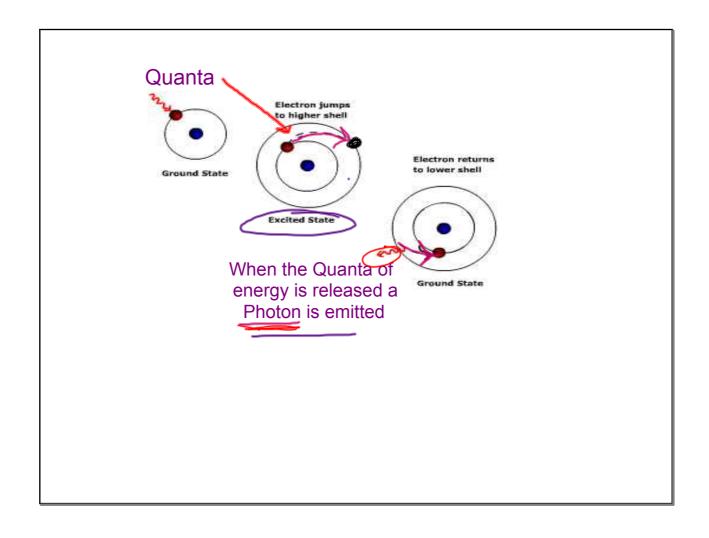
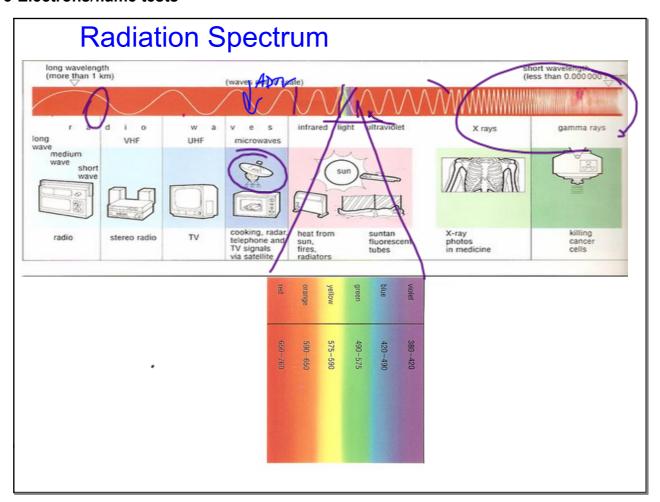
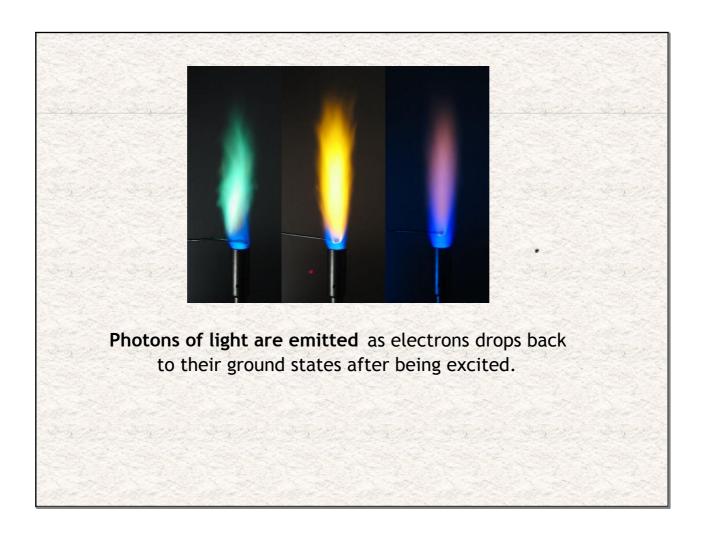
# **Quantum Theory-Flame Tests**

- Energy exists in packets called "QUANTA's"
- electrons can gain enough energy to "jump" to a higher level (excited state)
- eventually they will fall back to their original energy level (ground state)
  - ★ What goes up Must come down
- it takes a QUANTA (packet of energy) to raise an electron to a higher energy level (by heat or electricity)
- ★ When an electron "falls back" into place, a QUANTA of energy is lost
  - When a quanta of energy is lost, a PHOTON is emitted energy packet seen as light







$$\frac{88}{22} = 4 = 640g^{\frac{1}{2} - \frac{1}{2} - \frac{$$

6) 
$$\frac{TE}{HL} = n \qquad m(\frac{1}{2})^{4} = 4g$$
  
8) Gays 2hrs
$$\frac{XJY}{144 + 2} = \frac{146 \text{ hr}}{73} = 2 \qquad 4 \text{ red}(\frac{1}{2})^{2} = 1 \text{ mg}$$
4(

$$25-2=1.25\div 2=0.625$$

$$0 0 0$$

$$1960$$

$$3016$$