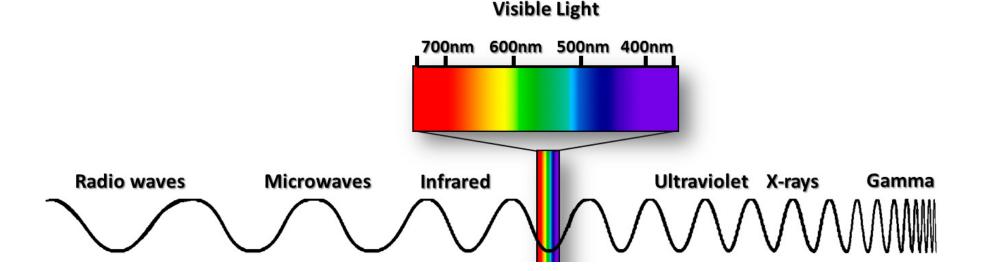
Another problem at the time had to do with light...



The Electromagnetic Spectrum



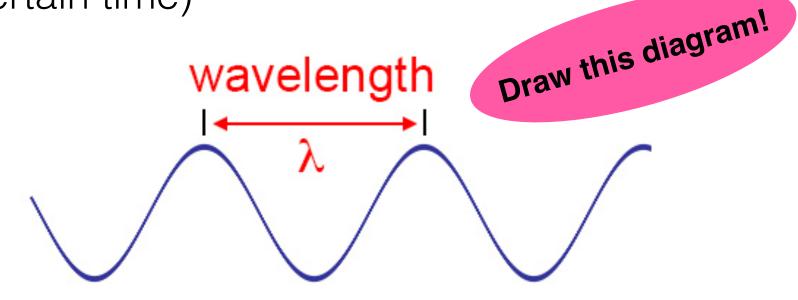
To be completed in class! (leave 2-3 lines for labeling below)

$$C = \lambda V$$

c = speed of light (all light travels at this speed) c = $3.0x10^5$ km/s (186,000 mi/s)

 λ = wavelength (distance from peak to peak)

v = frequency (number of waves passing a point in a certain time)



Two Problems

- Why don't negative electrons crash into the positive nucleus?
- 2. What causes elements to emit a characteristic spectrum of colored lines?

A new model solved **BOTH** problems!