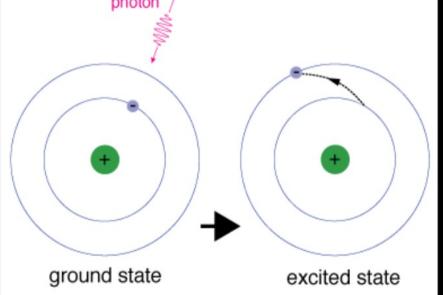
3.4.20 Electrons: Ground Vs Excited State

Today's Objectives:

- Learn the Ground vs Excited State of electrons
- Describe parts of a wave
- Distinguish between the E-M Spectrum

Ground State: An electron's normal energy level.
-Inthis state most of the fine. = Energy is given off (Light) **Excited State:** Electron jumps Up to a higher energy level.

emporary

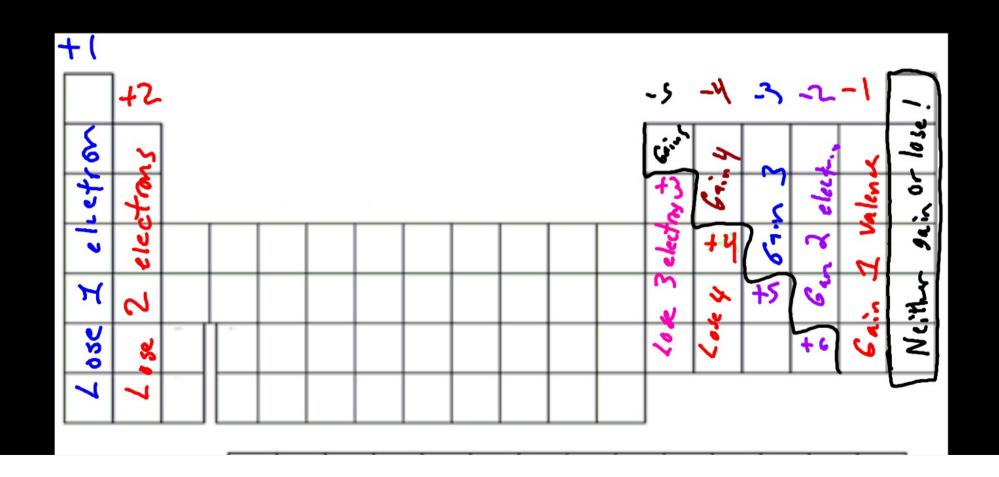


*Metals LOSE electrons to form ______ ions, called ____ Cations_.

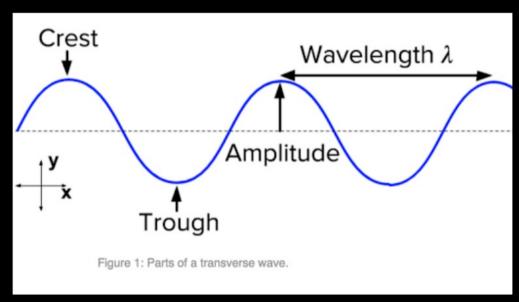
*Non-Metals $\frac{C_{HIN}}{C_{HIN}}$ electrons to form $\frac{C}{C_{HIN}}$ ions,

called Anions

How many electrons does each element lose or gain?



Energy travels as a wave.



When Freq T Warelength J

Wave Vocab to Know:

Amplitude - Wave Height
Wavelength - Crest to Crest Distance

Frequency - how & many crest appear cach se cond.

Electromagnetic Spectrum (E-M) (Types of Waves

Radio/TV

Microwave
Infrared (Heat)
Visible Light - What we can see (170)
Ultraviolet
X-Rays
Gamma Rays

Smallest Wavelenoth

ionizing Rediation

