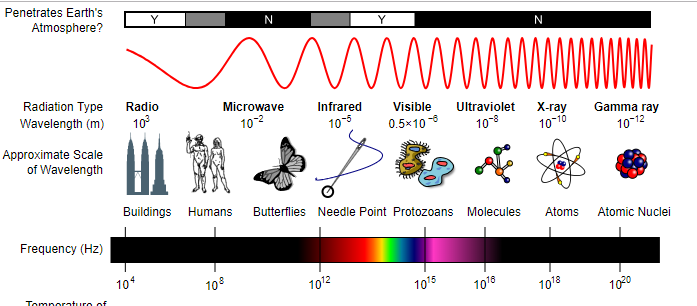
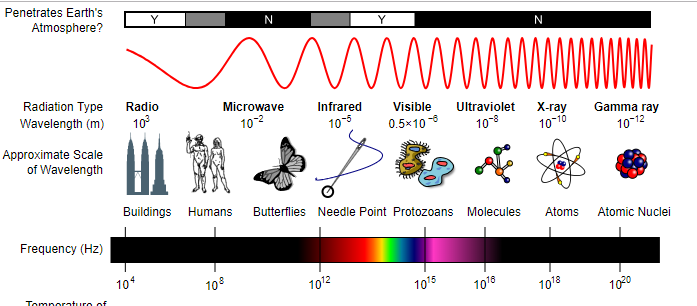
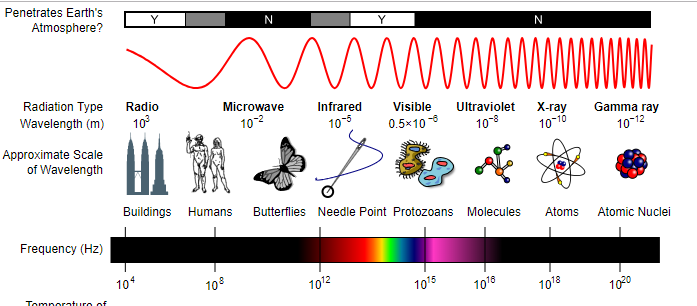
1. Radiation - energy that travels in waves or high speed particles
   1. Electromagnetic Radiation (Waves)
      1. Caused by vibrations that happen when an electric field comes in contact with a magnetic field.
      2. Travels perpendicular to the direction of wave
   2. Electromagnetic Spectrum: Electromagnetic radiation is grouped into categories by wavelength or frequency called the Electromagnetic Spectrum



Low frequency High frequency

Low wavelength High wavelength



* + 1. Radio waves
       1. Transmitted by radio and TV broadcasts, cell phones, remote controls, radar systems
       2. Can easily break through atmosphere
    2. Microwaves
       1. Used to broadcast info through space, warm food and to predict weather forecasts
       2. Can go through clouds and light rain
    3. Infrared radiations
       1. A type of thermal energy
       2. Used in remote sensing like weather conditions
    4. Visible light
       1. Humans can see with the naked eye
       2. Includes the colors of the rainbow
    5. Ultraviolet radiation, X-rays and Gamma rays
       1. Related to things happening in space
       2. UV has severe effects on skin
       3. X-rays = medical images
       4. Gamma rays – chemotherapy
  1. Radiation from the sun = visible light, uv radiation, infrared