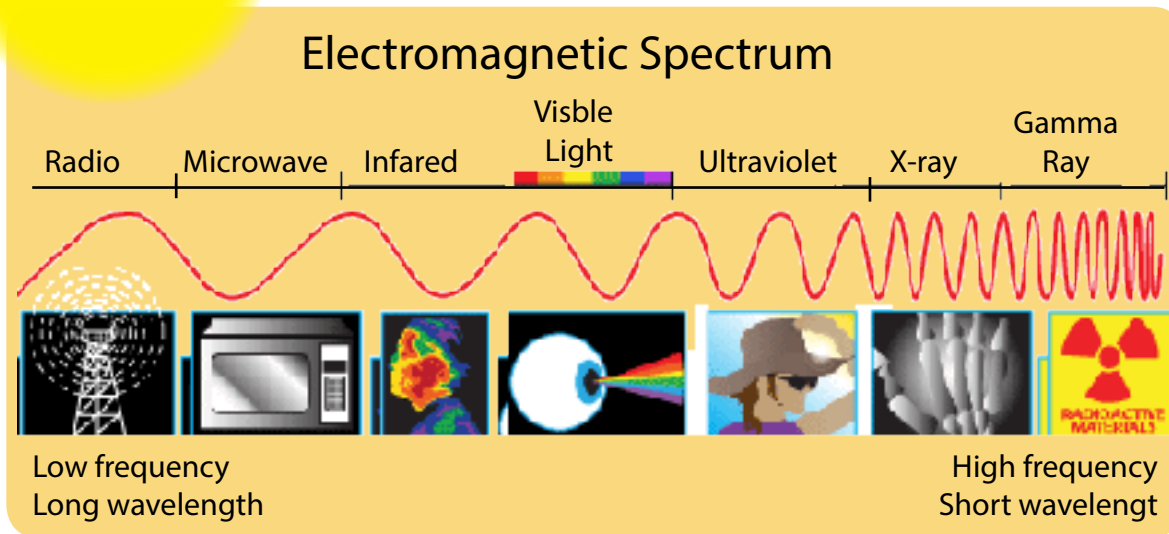


Solar Spectrum Basics



SUNLIGHT

is a rainbow of visible wavelengths: Red, Orange, Yellow, Green, Blue, Indigo and Violet (ROYGBIV). It also contains invisible radiation: Gamma rays, X-rays, UV, Infrared, and Radio waves.

SUNLIGHT CAN BE:

- **ABSORBED (TAKEN IN)**
Example: dark-colored objects get warmer. Lighter colored objects stay cooler.
- **REFLECTED (CHANGES DIRECTION)**
Example: mirror, water surface, white object, shiny surface
Often measured as *ALBEDO*- how much light an object reflects.
- **REFRACTED, DIFFRACTED (BENT)**
Example: light through water, telescopes lens, rainbow, sunbow
- **CONCENTRATED (FOCUSED)**
Example: magnifying glass, microscope, telescope
- **SCATTERED (SPREAD OUT)**
Example: blue sky, red sunset