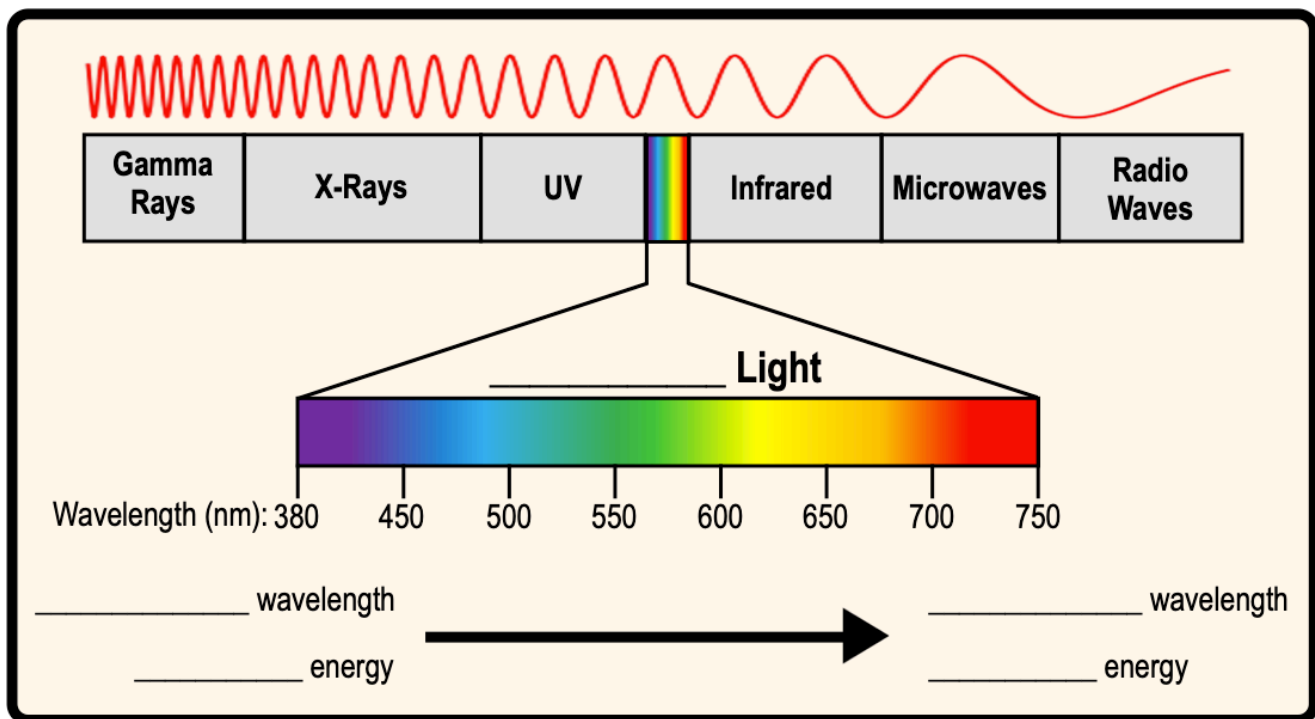


CONCEPT: ELECTROMAGNETIC SPECTRUM

- Sunlight travels *millions* of miles from the Sun to Earth as _____.
- **Photons**: particles of light with high *kinetic energy* that travel in _____ with different *wavelengths*.
- The shorter the *wavelength*, the _____ kinetic energy the *photon* has.
- _____ **Spectrum**: range of _____ possible *wavelengths* of a photon.
- **Visible Light**: narrow segment of light _____ to our eyes.

EXAMPLE: The Electromagnetic Spectrum.



PRACTICE: The component of the electromagnetic spectrum that allows our eyes to visualize color is:

- a) X-rays.
- b) Gamma rays.
- c) Ultraviolet light (UV).
- d) Visible light.
- e) Infrared light.

PRACTICE: A photon is an example of _____ energy. Photons have _____ energy at short wavelengths and _____ energy at long wavelengths.

- a) kinetic; high; low.
- b) kinetic; low; high.
- c) potential; high; low.
- d) potential; low; high.