

Electromagnetic spectrum:

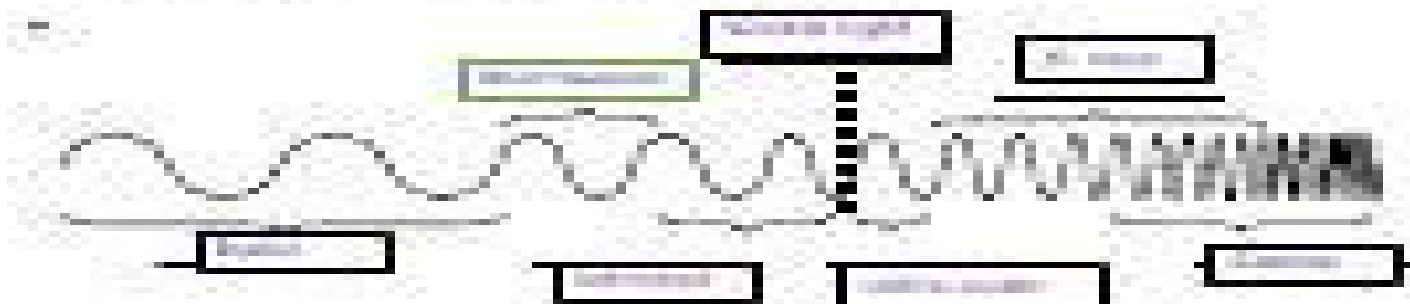
- Location of vibrating electromagnetic waves: Radio waves through visible light (400-700 nm)

- $E=hf$ produced by vibrating charged particles

- The EM spectrum includes:

Electromagnetic spectrum:

- Range of frequencies of electromagnetic waves
- As frequency increases, wavelength decreases and frequency decreases, wavelength increases



Human vision:

1. Most humans have 2 sets of light receptors
2. Includes 12 cones which use "con" (sensitivity to colour) + "opsin" (sensitivity to frequency) and 100 rods which respond to frequency
3. Rods detect absolute brightness levels not frequency - Rods detect area that is most active but cannot
4. Spectral response curve (sensitivity curve) identifies signals and changes (modulates) that activate cones
5. $E=hf$ - wavelength modulation
6. $f = \frac{c}{\lambda}$ - frequency modulation
7. All mammals are nocturnal, except for a few species that allow to adapt themselves to high frequency (change in wavelength)

Note Taking Guide Episode 13electromagnetic Waves Answers

Michael Hoelscher



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