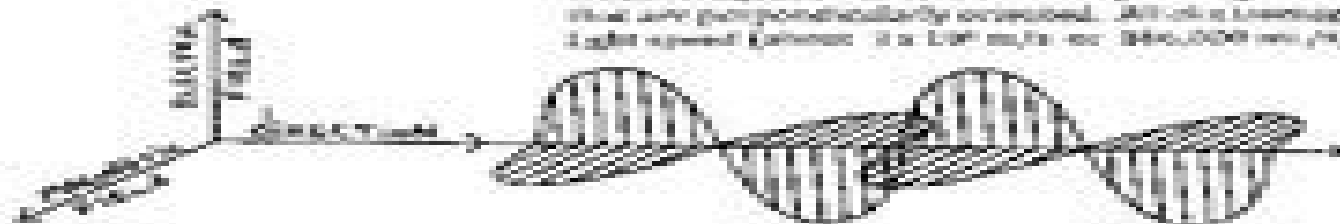


# Electromagnetic (EM) Waves Study Guide

## Vocabulary / Concepts

**Electromagnetic Wave** - A transverse wave produced by the acceleration of charged particles. Electromagnetic waves are made up of magnetic fields and electric fields that are perpendicularly oriented. All electromagnetic waves travel at light speed (about  $3 \times 10^8$  m/s, or 300,000 km/s) in a vacuum.



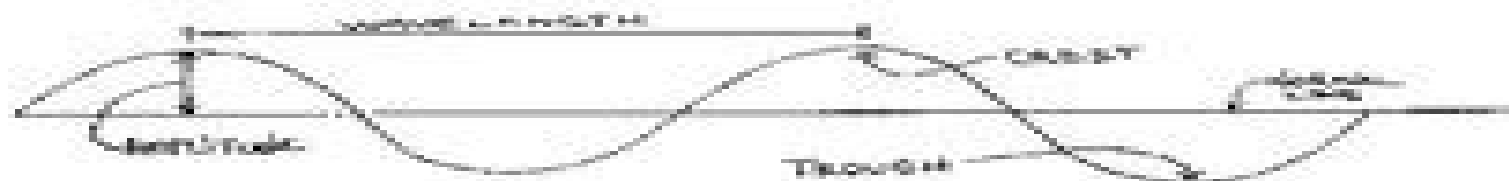
**Electromagnetic Spectrum** - This contains all the wavelength ranges of electromagnetic waves. EM waves are also referred to as "electromagnetic radiation".

**IMPORTANT:** The only difference between the wave ranges is wavelength and how the waves were produced! They are all made of the same stuff: electric and magnetic fields.

**EM Wave Ranges (listed from longest to shortest wavelength)**

Spectrum	1) Radio	→ produced by electron acceleration in wires, plasmas, etc.
	2) Infrared (IR)	→ produced by the vibrations of atoms and molecules. All matter in the universe emits it all the time.
	3) Visible	→ produced by electrons jumping from a higher energy level to a lower energy level. Sunlight.
	4) Ultraviolet (UV)	→ Produced by electrons jumping from a higher energy level to a lower energy level. These jumps involve larger leaps than those in visible.
	5) X-ray	→ Produced by very large electron jumps from high energy levels to very low energy levels.
	6) Gamma	→ Produced by proton accelerations caused by nuclear reactions.

**Wave** - A wave is a disturbance that carries energy from one place to another place. Although EM waves don't actually look like this, we represent all waves as having the following characteristics:



# Em Waves Test

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