



Electromagnetic Radiation

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- Electromagnetic radiation is an electric and magnetic disturbance travelling through space at the speed of light.
 - It contains neither mass nor charge but travels in a packets of radiant energy called photons, or quanta.

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- Examples of EM radiation include radio wave and microwave, as well as infrared, ultraviolet, gamma, and X-rays.

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- Some sources of EM radiation include sources in the cosmos e.g., the sun and stars, radioactive elements, and manufactured devices. EM exhibits a dual wave and particle nature.

- The Energy of electromagnetic radiation is qualified by an electron volt (eV), where 1 eV describes the energy gained by an electron as it is accelerated through a potential difference of 1 volt.