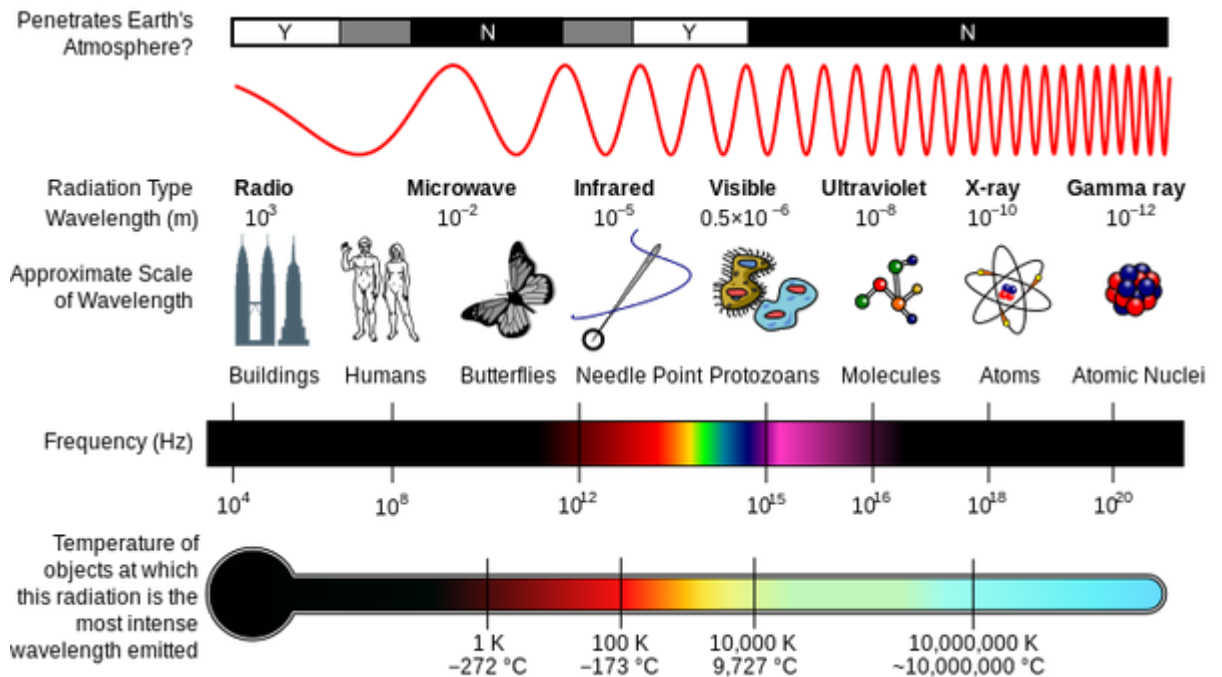


Electromagnetic (EM) waves are waves that travel through space and carry energy. They are produced by the vibration of electric and magnetic fields. The electromagnetic spectrum is divided into seven regions: Radio, Microwave, Infrared, Visible, Ultraviolet, X-ray, and Gamma ray.



Radio waves are the longest wavelength and lowest frequency waves in the electromagnetic spectrum. They are used for communication, such as radio and television. Microwaves are used for heating food and in some communication systems. Infrared waves are used in remote controls and night vision. Visible light is the only part of the spectrum that humans can see. Ultraviolet waves are used in tanning beds and can cause skin cancer. X-rays are used in medical imaging. Gamma rays are the shortest wavelength and highest frequency waves, used in cancer treatment and nuclear power.

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