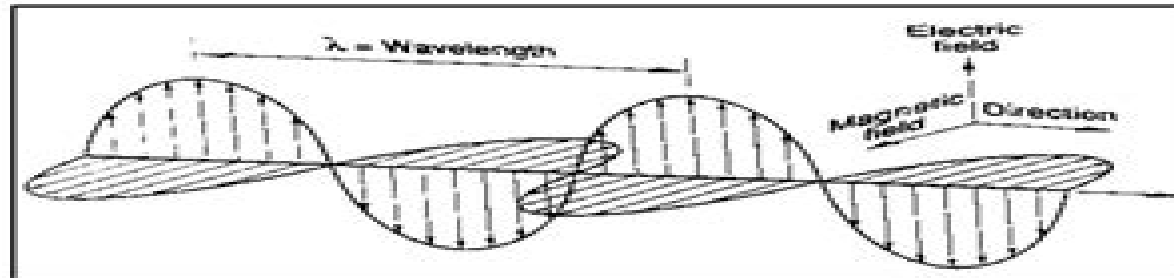


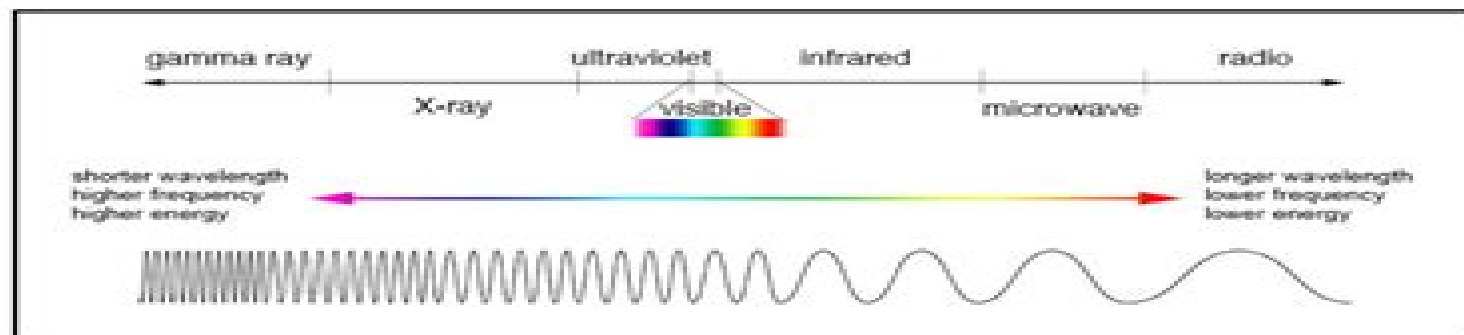
## THE ELECTROMAGNETIC SPECTRUM

All electromagnetic waves are organized according to their frequency and wavelength into a continuum called the electromagnetic spectrum. Electromagnetic energy with various wavelengths is radiated by the sun, the earth, and other objects. In the form of sinusoidal waves, electromagnetic energy travels through space at the speed of light. The distance between wave crests is known as the wavelength.



Light is a particular type of electromagnetic radiation that can be seen and sensed by the human eye. However, this energy exists at a wide range of wavelengths. The basic unit for measuring the wavelength of electromagnetic waves is called the micron. The spectrum of waves is divided into sections based on wavelength. Gamma rays, which have wavelengths of  $10^{-6}$  microns or fewer, are the shortest waves. On the other hand, radio waves, which have wavelengths of many kilometers, are the longest waves. The range of visible electromagnetic waves consists of the narrow portion of the spectrum, from 0.4 microns (blue) to 0.7 microns (red).

The electromagnetic spectrum is a map showing all the identified forms of light. The wavelength, which directly correlates to how energetic the wave is, is used to categorize all different types of light. While less energy waves have longer wavelengths, more energetic waves have shorter ones. The visible spectrum of light, the kind of light you can see, does not encompass all light. In fact, there are many kinds of electromagnetic waves that are not visible to us.



# Electromagnetic Spectrum Study Guide With Answers

**David D. Reid**



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