**4.3 The Electromagnetic Spectrum of Light**

**Focus:**

* To be able to describe the different types of radiation in terms of wavelength and frequency in relation to visible light
* To be able to provide examples of each type of radiation

**The Electromagnetic Spectrum**



* Visible light is a tiny portion of a much larger range of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ called the electromagnetic spectrum.
* Visible light and invisible energy \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ out from the sun and is called radiant energy.
* Electromagnetic radiation is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of energy in the form of waves that extend from the longest \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the shortest \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Radio waves, microwaves and infrared waves have wavelengths \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than visible light
* Ultraviolet waves, x-rays and gamma rays have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ wavelengths than visible light.