**Blue Shift**



The stretching of light waves seen as shifted towards the blue part of the spectrum; happens when object and observer are moving toward each other.

**Red Shift**



The stretching of light waves that can be seen as shifted towards the red part of the spectrum; happens when object and observer are moving away from each other.

**Infrared Radiation**



Waves of the electromagnetic spectrum that can be felt as heat.

**Microwaves**



Long waves of the electromagnetic spectrum that are used to heat food, to produce radar images and to produce weather reports.

**Frequency**



The number of electromagnetic waves traveling and passing through a certain area in one second.

**Gamma Rays**



Shortest waves with the most energy and highest frequency on the electromagnetic spectrum. They are used in medicine to kill bad living cells.

**Radio Waves**



The longest waves of the electromagnetic spectrum that are used to communicate and transmit information through long distances. The waves are as long as a football field.

**Visible Light**



The only electromagnetic waves emitted from stars and galaxies that are visible. They are made of all the colors of the spectra.

**Ultraviolet Radiation**



Waves in the electromagnetic spectrum that can penetrate the atmosphere and burn your skin.

**X-rays**



Short waves of the electromagnetic spectrum that can penetrate your body’s soft tissue. They are used to create images of bones for medical purposed.