**Electromagnetic Waves**

Background Information

**Electromagnetic waves** are made of vibrating fields and fields, which are perpendicular to each other in an EM wave

 *Surround every charged object Surround every magnet*

* Produced by vibrations of . The vibrating

 creates a .

* The transfer of energy as electromagnetic (EM) waves is called .
* The entire range of EM waves is called the .

The Electromagnetic Spectrum

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of Wave** | **Wavelength** | **Uses/Examples** | **Other Notes** |
| Wavelength \_\_\_\_\_\_Frequency \_\_\_\_\_\_Radio waves |  |  |  |
| Microwaves |  |  |  |
| Infrared |  |  |  |
| Visible |  |  |  |
| Ultraviolet |  |  |  |
| X-Rays |  |  |  |
| Gamma RaysWavelength \_\_\_\_\_\_Frequency \_\_\_\_\_\_ |  |  |  |



*Summary:*

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