

# ELECTROMAGNETIC WAVE

**Electromagnetic wave** (EM wave) or electromagnetic radiation is a wave that is created as a result of vibrations between an electric field and magnetic field, hence known as 'electromagnetic wave'. Recall Oersted's discovery: A changing electric field produces magnetic field. A changing magnetic field is therefore produced around a vibrating charge. And according to Michael Faraday, the changing magnetic field will produce electric field. A wave carries energy as it propagates, EM wave does the same, too. EM waves can travel through anything even on vacuum, meaning they do not need any medium to travel. They travel in a vacuum at a speed of  $3 \times 10^8$  m/s.

There are seven different types of EM waves. They are arranged in a gradual progression from the waves of lowest frequency to highest frequency. This arrangement of EM waves is called **electromagnetic spectrum**. In order of increasing frequency, the EM spectrum includes radio waves, microwaves, infrared, visible light, ultraviolet, X-ray, and gamma ray.

## ACTIVITY 1. WAVELENGTH RANGES OF EM WAVES

Wavelength is the distance between crest to crest or trough to trough. EM waves are bounded at different ranges. Meaning each type of EM waves has upper and lower limits on the spectrum. Using Figure 1, determine the wavelength ranges of each of the forms of electromagnetic waves. Answer the given table below and the questions that follow and submit them through the link.

Table 1 EM vs Wavelength

Electromagnetic Wave	Wavelength Range (meters)
Radio Wave	
Microwave	
Infrared	
Visible Light	
Red	
Orange	
Yellow	
Green	
Blue	
Violet	
Ultraviolet	
X-ray	
Gamma Ray	

(13 POINTS)

# Content Mastery Worksheet On Electromagnetic Waves

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## **Content Mastery Worksheet On Electromagnetic Waves:**

## Enjoying the Track of Phrase: An Emotional Symphony within **Content Mastery Worksheet On Electromagnetic Waves**

In a world consumed by displays and the ceaseless chatter of immediate communication, the melodic elegance and psychological symphony produced by the written term usually fade in to the backdrop, eclipsed by the constant noise and disturbances that permeate our lives. Nevertheless, nestled within the pages of **Content Mastery Worksheet On Electromagnetic Waves** a charming literary prize filled with raw thoughts, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, this fascinating masterpiece conducts viewers on an emotional trip, well unraveling the concealed melodies and profound affect resonating within each carefully crafted phrase. Within the depths of this touching analysis, we shall examine the book is key harmonies, analyze their enthralling writing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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