

# Light Waves and Matter

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1. A light wave is an electromagnetic wave which has both an electric and magnetic component associated with it. Electromagnetic waves are often distinguished from mechanical waves. The distinction is based on the fact that electromagnetic waves \_\_\_\_\_.

- a) can travel through materials and mechanical waves cannot
- b) come in a range of frequencies and mechanical waves exist with only certain frequencies
- ☒ c) can travel through a region void of matter and mechanical waves cannot
- d) electromagnetic waves cannot transport energy and mechanical waves can transport energy
- e) electromagnetic waves have an infinite speed and mechanical waves have a finite speed

2. Consider the diagram below. It represents the beginnings of an electromagnetic spectrum below. Complete the diagram by labeling the following regions: ultraviolet, infrared, x-ray, radio wave, gamma radiation, and microwave radiation.

RADIO	MICRO	IR	Visible light	UV	XRAY	GAMMA
Long wavelength						Short Wavelength
Low $f$						High $f$

3. Which region of the electromagnetic spectrum has the highest frequency?

right side (GAMMA)

4. Which region of the electromagnetic spectrum has the longest wavelength?

left side (RADIO)

5. Which region of the electromagnetic spectrum will travel with the fastest speed?

ALL TRAVEL AT SAME SPEED

6. It is known that electromagnetic waves with longer wavelengths have a greater ability to bend around obstacles that get in their path. This ability to bend around obstacles is referred to as diffraction. Electromagnetic waves with strong diffraction properties are used in communication. Which two regions of the spectrum have the greatest ability to diffract?

RADIO & MICRO

7. It is known that electromagnetic waves with high frequency are more capable of causing damage to the organs of living things. Which two regions of the spectrum have the tendency to cause the greatest damage to humans?

X-RAY & GAMMA

# Light Waves And Matter Answers

**Martin Caon**



## **Light Waves And Matter Answers:**

## The Enigmatic Realm of **Light Waves And Matter Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Light Waves And Matter Answers** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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