

SHEDDING LIGHT ON ELECTROMAGNETIC WAVES! ANSWER KEY

Instructions: Show your work completely in your journal when answering the following questions.

1. Using the chart from the notes:
 - a. Which has longer wavelengths: radio waves or visible light waves?
Radio waves
 - b. Which has higher frequencies: ultraviolet waves or gamma rays?
Gamma rays
 - c. Which has more energy: infrared or ultraviolet?
Ultraviolet

2. Red light has a wavelength of approximately 700 nm. (n = nano = 10^{-9})
 - a. Convert this to meters.

$$\boxed{700 \text{ nm} = 700 \times 10^{-9} \text{ m} = 7.00 \times 10^{-7} \text{ m}}$$

- b. Calculate the frequency of red light based on its wavelength.

$$v = f\lambda \sim f = \frac{v}{\lambda} = \frac{3.00 \times 10^8 \text{ m/s}}{7.00 \times 10^{-7} \text{ m}}$$

$$\boxed{f = 4.29 \times 10^{14} \text{ Hz}}$$

- c. If blue light has a wavelength of 400 nm, how does its frequency compare to red light? Which one has more energy?

$$v = f\lambda \sim f = \frac{v}{\lambda} = \frac{3.00 \times 10^8 \text{ m/s}}{4.00 \times 10^{-7} \text{ m}}$$

$$\boxed{f = 7.50 \times 10^{14} \text{ Hz}}$$

The frequency of blue light is higher than red light; it also has more energy!

3. A block of unknown material is submerged in water. Light in the water is incident on the block at an angle of 31° . The angle of refraction in the block is 27° . What is the index of refraction of the unknown material, and what is the material?

$$\frac{n_1 \sin \theta_1}{n_2} = \frac{n_2 \sin \theta_2}{n_1} \sim \frac{n_1 \sin \theta_1}{\sin \theta_2} = \frac{1.3 \sin 31^\circ}{\sin 27^\circ}$$

$$\boxed{n_2 = 1.5}$$

This is the index of refraction for corn oil

Electromagnetic Waves Practice 14a Answers

L Darling-Hammond



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Holt Physics Raymond A. Serway, 2002 English Mechanic and Mirror of Science ,1901 **Transdex Index** ,1991 An index to translations issued by the United States Joint Publications Research Service JPRS **The Times Index** ,1977
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