

CHAPTER 6: ANSWERS TO ASSIGNED PROBLEMS

Hauser- General Chemistry I

revised 8/03/08

6.9 What are the basic SI units for ...?

(a) the wavelength of light **meters, although colors are usually reported in 3 digit nanometers (nm)**

(b) the frequency of light **1/s or s^{-1} or Hertz or Hz**

(c) the speed of light **meters / second or m/s or $m s^{-1}$**

6.11 Label each of the following statements as true or false. For those that are false, correct the statement.

(a) Visible light is a form of electromagnetic radiation. **TRUE**

(b) The frequency of radiation increases as the wavelength increases. **FALSE.**
Frequency and wavelength trend in opposite directions. The frequency of radiation DECREASES as the wavelength increases.

(c) Ultraviolet light has longer wavelengths than visible light. **FALSE.**
Ultraviolet light has SHORTER wavelengths than visible light.

(d) X- rays travel faster than microwaves. **FALSE.**
All EM radiation travels at the speed of light. X- rays travel at same speed as microwaves.

(e) Electromagnetic radiation and sound waves travel at the same speed. **FALSE.**
Sound is not a form of EM radiation. Electromagnetic radiation and sound waves travel at different speeds.

6.17 An argon ion laser emits light at 532 nm. What is the frequency of this radiation?

What's nu? $\nu = c / \lambda$

Units of "c" demand meters; convert from nm.

$$\nu = \frac{(3.00 \times 10^8 \text{ m s}^{-1})}{532 \text{ nm}} \times \frac{1 \times 10^9 \text{ nm}}{1 \text{ meter}} = 5.63909 \times 10^{14} = 5.64 \times 10^{14} \text{ s}^{-1} \text{ or Hz}$$

Using Figure 6.4, predict the color associated with this wavelength.

532 nm radiation is green light.

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