

Chapter 5 Assessment

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Section 5.1

Mastering Concepts

3-4. Define the following terms.

a. frequency

Frequency is the number of waves that pass a given point per second.

b. wavelength

Wavelength is the shortest distance between equivalent points on a continuous wave.

c. quantum

A quantum is the minimum amount of energy that can be lost or gained by an atom.

d. ground state

An atom's ground state is its lowest allowable energy state.

3-5. Arrange the following types of electromagnetic radiation in order of increasing wavelength.

a. ultraviolet light

b. microwaves

c. radio waves

d. X rays

d. X rays, a. ultraviolet light, b. microwaves, c. radio waves

3-6. A gamma ray has a frequency of 2.88×10^{21} Hz. What does that mean?

2.88×10^{21} gamma-ray electromagnetic waves of this frequency pass a given point per second.

3-7. What is the photoelectric effect?

a phenomenon in which a metal emits electrons when light of a sufficient frequency shines on it

3-8. Neon Sign. How does light emitted from a neon sign differ from sunlight?

The light from a neon sign contains only certain visible colors, while sunlight contains the full spectrum of colors.

39. Explain Planck's quantum concept as it relates to energy lost or gained by matter.

According to Planck, for a given frequency, matter can emit or absorb energy only in discrete quanta that are whole-number multiples of $\hbar\nu$, where \hbar is Planck's constant.

40. How did Einstein explain the photoelectric effect?

He proposed that photons must have a certain minimum energy level, or threshold, value to cause the ejection of a photoelectron.

41. Rainbow. What are two differences between the red and green electromagnetic waves in a rainbow?

The red waves have a longer wavelength and a lower frequency.

42. Temperature. What happens to the light emitted by a heated, glowing object as its temperature increases?

The color of the light changes as the object acquires more and more energy.

43. What are three deficiencies of the wave model of light related to light's interaction with matter?

The wave model does not explain the photoelectric effect, atomic emission spectra, and why matter emits different frequencies of light at different temperatures.

44. How are radio waves and ultraviolet waves similar? How are they different?

Both types of waves travel at the same speed in a vacuum, 3.00×10^8 m/s. Radio waves have a longer wavelength and lower frequency than ultraviolet waves.

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John Attfield

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