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Chapter 5 Assessment

pages 166–169

Section 5.1

Mastering Concepts

34. 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.

35. 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

36. A gamma ray has a frequency of 2.88×10^{23} Hz. What does that mean?

2.88×10^{23} gamma-ray electromagnetic waves of this frequency pass a given point per second.

37. What is the photoelectric effect?

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

38. 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, ν , matter can emit or absorb energy only in discrete quanta that are whole-number multiples of $h\nu$, where h 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.

Predict whether francium is a solid, a liquid, or a gas. 3. What is in soap and how does it clean? Chemistry sometimes is called the "central science" because it connects other sciences to each other, such as biology, physics, geology, and environmental science. Chemistry is at the heart of cooking. The Change Equation How to Identify, Quantify and Overcome the Real Barriers to Organisational Change By Peter Duschinsky The Change Equation, which is certainly a more buttoned-down book than either of the above and, given the subject matter, is none the worse for it. If that's not enough, some of these book apps and subscription services also offer links to videos, reports and TED talks for the books, as well. Will a product work as advertised or is it a scam? Some of these services provide audio, PDF, and infographics of the books. Atomic NumberAtomic numberBoiling point (°C)0 20406080100050100150200250300 Atomic Radius vs. Explain.The radius prediction is most inaccurate. 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This is a sober, practical guide to managing transformational change, written by a management consultant with a particular focus on IT and e-procurement. How is cheese made? Atomic Number Atomic numberAtomic radius (pm) 2. How can you support your prediction?Francium is probably a liquid at room tempera-ture. mysterious. The affect of the principal energy level on the radius is harder to extrapolate accurately because it varies from period to period. Chemistry applies to the food industry, retail sales, transportation, art, homemaking... The Change Equation at Waterstones Because everyone is pressed for time, the need to look up the summary of this book or that one is sometimes a priority. Why do leaves change color in the fall? 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