

**Concept-Development
Practice Page****27-1****Light**

1. The Danish astronomer Olaus Roemer made careful measurements of the period of a moon about the planet Jupiter. How this data enabled a calculation of the speed of light is described in your textbook on pages 534 and 535.

- a. What is the diameter, in kilometers, of Earth's orbit around the sun?

300,000,000 km

- b. How much time is required for light to travel across the diameter of the orbit?

1000 s

- c. How do these two quantities determine the speed of light?

Speed = distance/time = (300,000,000 km)/(1000 s) = 300,000 km/s

2. Study Figure 27.4 on page 536 in your textbook and answer the following:

- a. Which have longer *wavelengths*, radio waves or light waves?

Radio waves

- b. Which have longer *wavelengths*, light waves or gamma rays?

Light waves

- c. Which have higher *frequencies*, ultraviolet or infrared waves?

Ultraviolet waves

- d. Which have higher *frequencies*, ultraviolet waves or gamma rays?

Gamma rays

3. Carefully study Section 27.4 in your textbook and answer the following:

- a. Exactly what do vibrating electrons emit?

Energy that is carried in an electromagnetic wave

- b. When ultraviolet light shines on glass, what does it do to electrons in the glass structure?

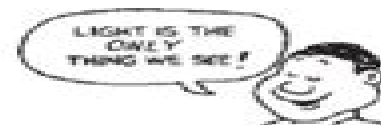
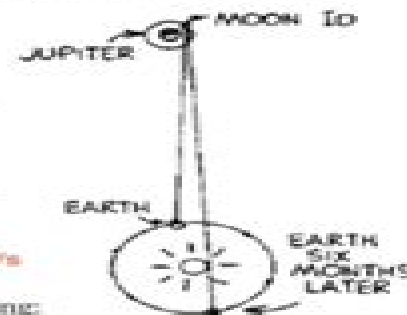
Ultraviolet light causes electrons to vibrate in resonance with the ultraviolet light.

- c. When energetic electrons in the glass structure vibrate against neighboring atoms, what happens to the energy of vibration?

The energy of vibration becomes heat.

- d. What happens to the energy of a vibrating electron that does not collide with neighboring atoms?

The energy is emitted as light.

**CONCEPTUAL PHYSICS**

Prentice Hall Conceptual Physics Worksheet Chapter 12

Eric Mazur



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