

Read pages 328 - 342.

1. How are EM waves different from mechanical waves?
2. Who discovered that light was made up of waves in the electric and magnetic fields?
3. What happens to the speed of light when it travels through a dense material?
4. What did Einstein discover about light in 1905?
5. Write these waves in order from shortest to longest: gamma rays, infrared, microwaves, radio, ultraviolet, visible light, x-rays.
6. List two uses for each type of wave.
 - a. gamma rays
 - b. infrared
 - c. microwaves
 - d. radio
 - e. ultraviolet
 - f. x-rays
7. Which waves are hazardous to people?
8. Which waves have the most energy?