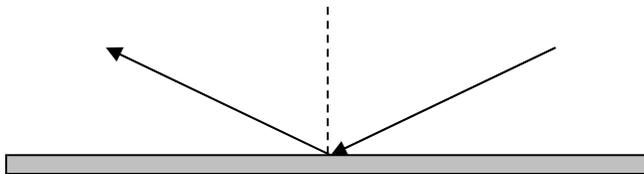


Read pages 354 – 359.

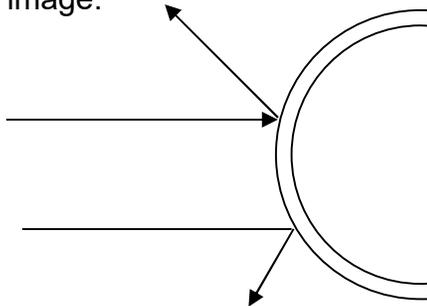
1. What color is light with a wavelength of 700 nanometers?
2. What color is light with a frequency of 600 THertz?
3. What is the difference between a luminous object and an illuminated object?
4. How long does it take the sun's light to reach the earth?
5. A 100 candela lamp is 2 meters from the page you are reading. If you move the lamp closer so that it is 1 meter from your page, the intensity of the light on your page is:
(choose one answer)
 - a. Doubled
 - b. Quadrupled
 - c. Halved
 - d. Not changed
6. What is an incandescent light bulb?
7. How is a fluorescent light different than an incandescent light?
8. How is cold light produced?
9. What makes laser light different than most visible light?
10. List four uses for laser light.

Read pages 364 – 368.

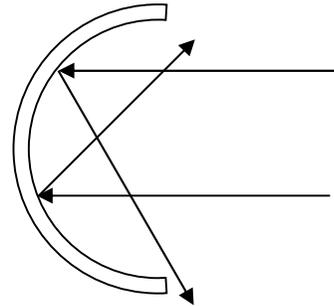
1. What is the difference between a diffuse reflection and a specular reflection?
2. Indicate whether the surface would produce a diffuse reflection or a specular reflection:
 - a. A wooden table
 - b. A computer screen
 - c. A windshield
 - d. This sheet of paper
3. The diagram below shows a picture of a light ray bouncing off a mirror. Label the incident ray and the reflected ray.



4. Write the law of reflection.
5. Label the mirror as concave or convex. Indicate whether each mirror produces a real or virtual image.



Type of mirror:
Type of reflection:



Type of mirror:
Type of reflection:

6. What do you call the point where the light rays reflecting off a concave mirror meet?
7. List three uses for plane mirrors.
8. List two uses for concave mirrors.
9. What are convex mirrors useful for?