

1. Name 3 basic optical devices.
2. A lens bends light in two ways. \_\_\_\_\_ lenses bend the light so the rays come together. \_\_\_\_\_ lenses make the light spread apart.
3. A \_\_\_\_\_ reflects light and allows you to see yourself.  
a) Lens                      b) mirror                      c) prism
4. Telescopes use \_\_\_\_\_, which bend and reflect light.
5. Draw a converging lens showing light rays passing through.
6. Draw a converging lens showing light rays passing through.
7. How are transparency and translucency different?
8. Why is it that a sheet of white paper is a good reflector of light?
9. Absorption allows the energy to be \_\_\_\_\_.
10. Sketch Figure 25.17. Make sure to draw all the arrows.

11. Does a fish net sitting in a fish tank demonstrate reflection of refraction of light?
12. T/F The incident ray is the light ray that strikes the surface of a mirror.
13. State the law of reflection.
14. Draw Figure 25.19.
  
15. What is the difference between specular reflection and diffuse reflection?
  
16. The index of refraction is the value given to materials based on their ability to \_\_\_\_\_ light.
  - a) bend
  - b) reflect
  - c) absorb
17. Draw the diagram of the light ray entering and exiting the glass. Don't forget to label all parts of the diagram!
  
18. Which way does light bend as it enters and exits different materials with unlike densities?
  
19. With a converging lens, light is bent \_\_\_\_\_ the axis, and with a diverging lens, light is bent \_\_\_\_\_ from the axis.
  
20. What is the difference between the focal point and the focal length when discussing lenses?