

## STUDY GUIDE

## ● The Senses

Check the statements that agree with the textbook. Rewrite the other statements so that they agree.

- 1. Sense organs are adapted for capturing and transmitting different forms of energy.
- 2. Light travels in straight lines unless something refracts it.
- 3. The lens of the eye directs rays of light onto the retina.
- 4. Cones in the retina respond to dim light.
- 5. The optic nerve passes impulses from rods and cones in the sclera to the brain.
- 6. The refraction of light is determined by the shape of the lens it passes through.
- 7. The lens in the eye is concave.
- 8. A lens that has thicker edges than the middle is called a convex lens.
- 9. Light rays that pass through a concave lens are bent outward.
- 10. Nearsightedness occurs when light from distant objects is focused in front of the retina.
- 11. Nearsightedness is corrected with eyeglasses that contain concave lenses.
- 12. Farsightedness occurs when light from distant objects is focused behind the retina.
- 13. Sound energy is to hearing as light energy is to vision.
- 14. The eardrum is a fluid-filled structure shaped like a snail's shell in the inner ear.
- 15. The outer ear sends impulses from nerve endings in the cochlea to the brain.
- 16. Olfactory cells are sensitive nerve cells located in the nasal passages.
- 17. The major sensory receptors for taste are the taste buds.
- 18. Taste buds respond to chemical stimuli.
- 19. Many of the sensations picked up by receptors in the skin are stimulated by chemical energy.
- 20. Your senses are adaptations that help you respond to your environment.