Name:	Date:

Module 18 Vision: Sensory and Perceptual Processing

1. the distance from the peak of one light or sound wave to the peak of A. cones the next 2. the dimension of color that is determined by the wavelength of light B. wavelength 3. the amount of energy in a light wave, which influences what we C. rods perceive as brightness 4. the adjustable opening in the center of the eye through which light D. blind spot enters 5. a ring of muscle tissue that forms the colored portion of the eye E. y-h trichromatic theory around the pupil and controls the size of the pupil opening; it dilates or constricts in response to light intensity 6. the transparent structure behind the pupil that changes shape to F. iris help focus images on the retina G. retina 7. a multilayered, light-sensitive tissue on the eyeball's inner surface; contains the receptor rods and cones plus layers of neurons that begin the processing of visual information H. feature detectors 8. the central focal point in the retina 9. the process by which the eye's lens change its curvature and I. intensity thickness to focus near or far objects on the retina J. lens 10. retinal receptors that detect black, white and gray, and are sensitive to movement; necessary for peripheral and twilight vision when cones don't respond K. fovea 11. retinal receptors that are concentrated near the center of the retina and that function in daylight or in well-lit conditions; detect fine details and give rise to color sensations 12. the nerve that carries neural impulses from the eye to the brain L. opponent-process theory 13. the point at which the optic nerve leaves the eye, creating a M. accommodation "blind" spot because no receptor cells are located there 14. nerve cells in the brain's visual cortex that respond to specific N. pupil

features of the stimulus, such as shape, angle, or movement

- 15. processing of many aspects of a problem simultaneously; the brain's natural mode of information processing for many functions, including vision
- O. hue
- 16. the theory that opposing retinal processes (red-green, blue-yellow, white-black) enable color vision. For example, some cells are stimulated by green and inhibited by red; others are stimulated by red and inhibited by green
- P. optic nerve
- 17. the theory that the retina contains three different types of color receptors which, when stimulate in combination, can produce the perception of any
- Q. parallel processing