

**Chapter Review (continued)****Part B. Concept Review**

1. Number the following steps in the order in which they happen when light enters the eye.

- \_\_\_\_\_ a. Light passes through the lens.  
 \_\_\_\_\_ b. Impulses from rods and cones in the retina pass to the optic nerve.  
 \_\_\_\_\_ c. The optic nerve carries the impulses to the visual area of the cortex  
 \_\_\_\_\_ d. Light passes through the cornea.  
 \_\_\_\_\_ e. The lens directs rays onto the retina.

2. How does a depressant affect your nervous system? *Alcohol*

3. How does a stimulant affect your nervous system? *Coffee*

**Directions:** Name the sensory receptor and its stimulus for each of the following senses.

4. Smell

5. Taste

6. Touch

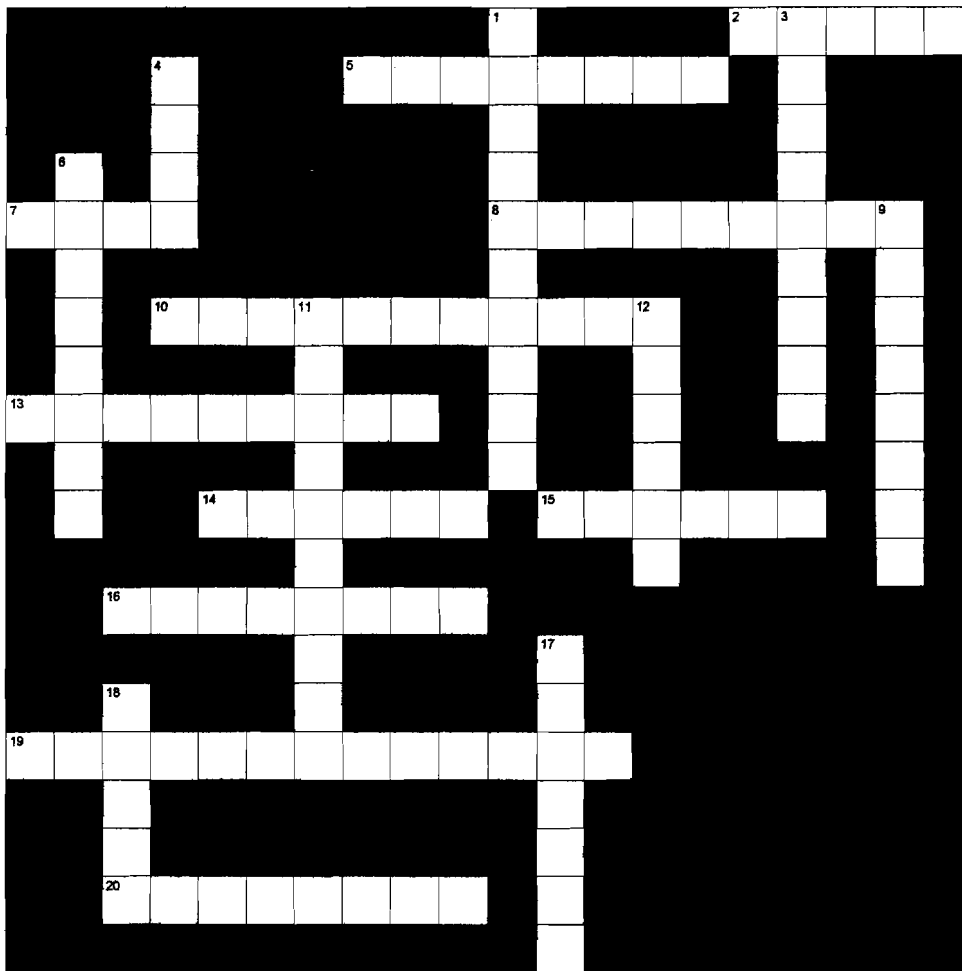
*(Olfactory cells  
taste buds  
kin receptor)*

**Directions:** Answer the following questions using complete sentences.

7. You touch a hot pan and immediately pull your hand back without thinking. What was the stimulus? Why did you react the way you did?

8. Name some major causes of spinal and head injuries and how you can help prevent them.

# Eye and Brain Crossword



## Down

1. Part of the brain that helps maintain balance and coordination
3. Lobe of the brain that processes visual information
4. Photoreceptors that are sensitive to intensity of light. Detects white, black, shades of grey.
6. Lobe of the brain that processes sensory information and is responsible for speech and language
9. Structure in Limbic System that helps relay sensory information except smell
11. Sends messages from the eye to the brain
12. The white part of the eye
17. Lobe of the brain that is responsible for thinking, decisions, memory
18. Pit in center of macula- only cones

## Across

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>2. Photoreceptors located in the center of retina that detect color</li> <li>5. Largest part of the brain that is divided into lobes</li> <li>7. Clear flexible structure that changes shape when objects are close and far</li> <li>8. Optic disk- no rods or cones</li> <li>10. Coordinates regulation of body functions and controls pituitary gland which releases hormones</li> <li>13. Part of the brain that regulates heartbeat, breathing, and body temperature</li> </ol> | <ol style="list-style-type: none"> <li>14. Spot on retina where there is a high concentration of cones</li> <li>15. Outside structure in eye that is used for protection</li> <li>16. Lobe of the brain that coordinates messages for touch &amp; outgoing messages for movement</li> <li>19. Light sensitive cells in the retina</li> <li>20. Structure in Limbic system that plays a role in emotions and memory</li> </ol> |
|--|---|

...  
 Cornea  
 Brain Stem  
 Photoreceptor  
 Cones  
 Rods  
 Temporal  
 Cerebellum  
 Occipital  
 Amygdala

Cerebrum  
 Sclera  
 Blindspot  
 Fovea  
 Optic Nerve  
 Lens  
 Hypothalamus  
 Macula  
 Parietal  
 Thalamus  
 Frontal