

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

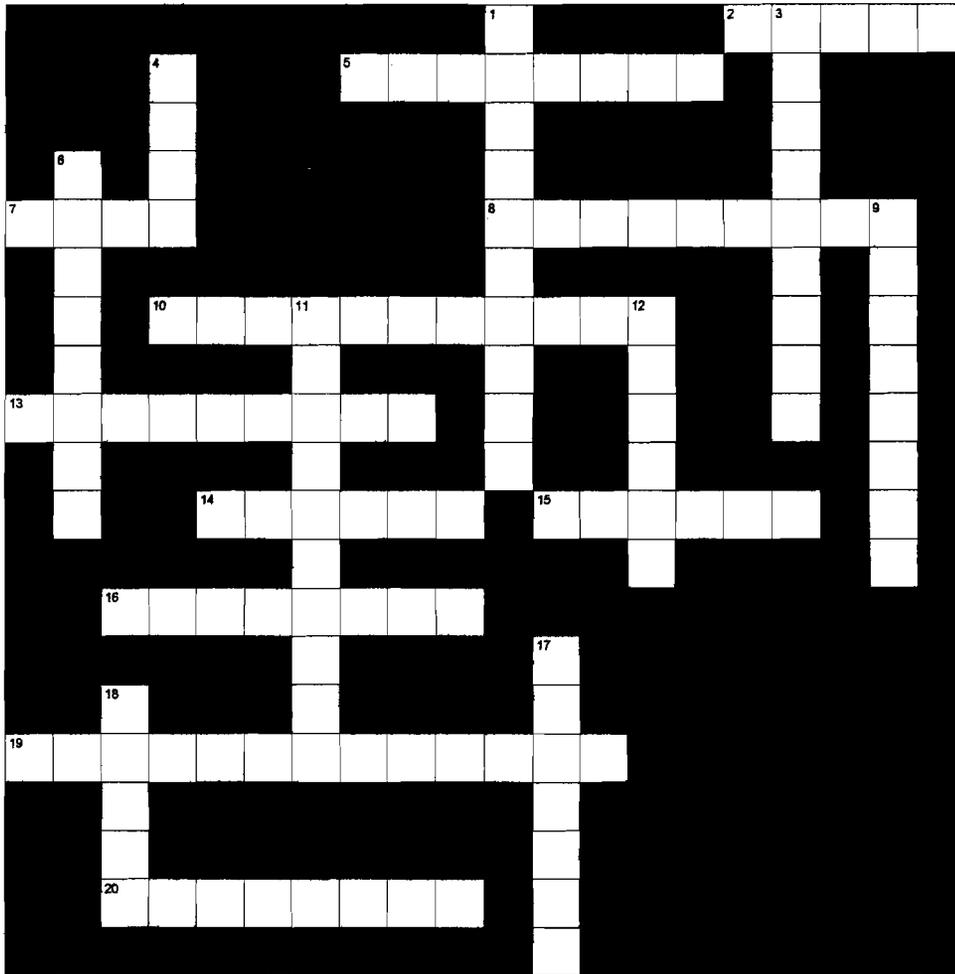
*(Olfactory cells
taste buds
kin receptor)*

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

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

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