



8

SPECIAL SENSES

The body's sensory receptors react to stimuli or changes occurring both within the body and in the external environment. When triggered, these receptors send nerve impulses along afferent pathways to the brain for interpretation, thus allowing the body to assess and adjust to changing conditions so that homeostasis may be maintained.

The minute receptors of general sensation that react to touch—pressure, pain, temperature changes, and muscle tension—are widely distributed in the body. These are considered in Chapter 7. In contrast, receptors of the special senses—sight, hearing, equilibrium, smell, and taste—tend to be localized and in many cases are quite complex. The structure and function of the special sense organs are the subjects of the student activities in this chapter.

THE EYE AND VISION

1. Complete the following statements by inserting your responses in the answer blanks.

extrinsic (external eye) 1

eyelids 2

Meibomian glands 3

Conjunctivitis 4

Attached to the eyes are the (1) muscles that allow us to direct our eyes toward a moving object. The anterior aspect of each eye is protected by the (2), which have eyelashes projecting from their edges. Closely associated with the lashes are oil-secreting glands called (3) that help to lubricate the eyes. Inflammation of the mucosa lining the eyelids and covering the anterior part of the eyeball is called (4).

2. Trace the pathway that the secretion of the lacrimal glands takes from the surface of the eye by assigning a number to each structure. (Note that #1 will be closest to the lacrimal gland.)

2 1. Lacrimal sac

4 2. Nasal cavity

3 3. Nasolacrimal duct

1 4. Lacrimal canals

Chapter 8 Special Senses Worksheet Answers

**Karen Hartley,Chris Macro,Philip
Taylor**



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Sights and Sounds Charles E. Kupchella, 1976

The Special Senses Henry Harrington Janeway, 1916

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The Sixth Sense and Other Special Senses Karen Hartley,Chris Macro,Philip Taylor,2000 An exploration of special senses It uses photographs simple text activities and diagrams to cover the anatomy of the sense organs and how they work what these senses are used for information about what happens when something goes wrong with the senses and further reading **Senses, Nervous & Respiratory Systems Gr. 5-8** Susan Lang,2007-09-01 Continue your journey into the human body with a stop at the brain and lungs Our resource is written in an easy to understand way that makes it a hit for students Start by dissecting the different parts of the brain and learning what they do Move through the nervous system from the spinal cord to the nerves Visit all five senses beginning with sight Learn how the brain interprets things we see with our eyes Find the smallest bone in the human body in the ear Play some memory games to test your sense of touch See firsthand how taste and smell are linked with a blind experiment Find out how the mouth nose trachea epiglottis and lungs come together to form our respiratory system Conduct an experiment to see just how much air your lungs can hold Aligned to the Next Generation State Standards and written to Bloom s Taxonomy and STEAM initiatives additional hands on experiments crossword word search comprehension quiz and answer key are also included **The Special Senses** Delmar Publishers,Thomson Delmar Learning,1999-06 Tape 14 The Special Senses medical terminology med term body systems multi media anatomy physiology health occupations allied health nursing EMS respiratory care medical assisting **Five Special Senses** Eric Berg,1993-08-01 When Blanca Bat is Star of the Week she tells her class all about herself and her five senses

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