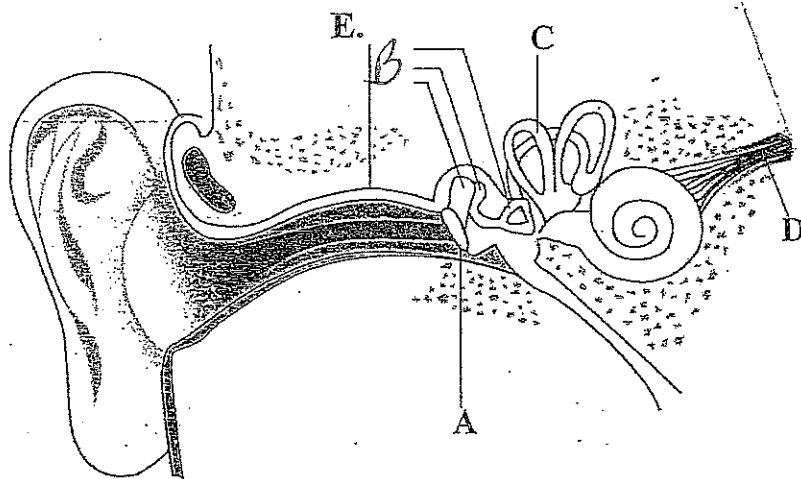
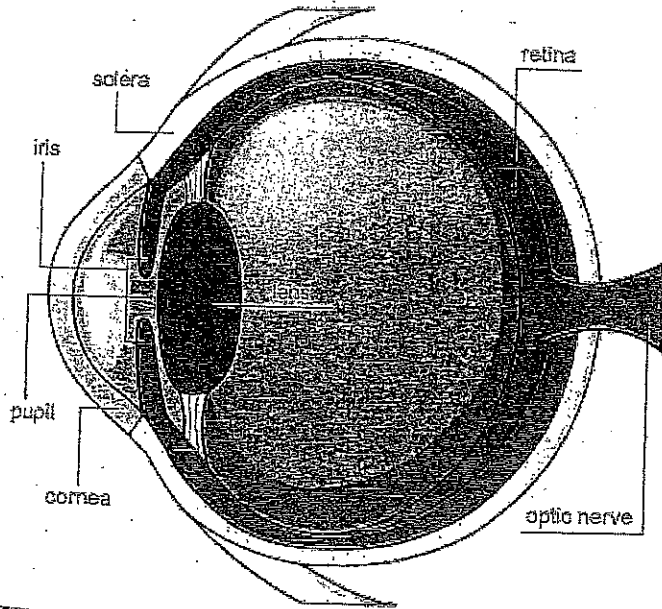


Study Guide

- When we touch something, the nerve signals carry messages to the brain. The nerve signals travel through the spinal cord.
- When we have a stuffy nose, the odor molecules are blocked by the mucus, and cannot reach the nose, so they cannot reach the brain. That is why it is hard to taste food while we have a cold.
- Skin detects temperature.
- If a part of a person's tongue were damaged, some of that person's sense of taste would be affected.
- Reason why a person might need glasses:
Light needs to be focused by the lense to the retina. Glasses will correct how the light is focused.
- Pupils control the amount of light that enters the eye.
- Without an optic nerve, a person cannot see.
- Path of sound through the ear: Sound waves enter through the outer ear, then sound waves move through the ear canal. Next sound waves strike the eardrum, causing it to vibrate, then vibrations enter the middle ear. Then the hammer picks up the vibrations, then vibrations are passed to the anvil. Next the vibrations are transmitted to the stirrup, then a vibrating membrane transmits to the inner ear, and then vibrations are channeled into the cochlea. Then nerve cells detect vibrations and convert them to impulses, then impulses are transmitted to the brain. Then the brain interprets impulses as sound.

DIAGRAM OF THE EYE



- A. eardrum
- B. ossicles or hammer, anvil, stirrup
- C. semi-circular canals
- D. auditory nerve
- E. ear canal