

## Recap Special Senses

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1. Tears are produced by ----- glands.
2. -----Rectus and -----Oblique extrinsic muscles rotate the eyeball.
3. -----is the internal lining of eyelids, the mucous membrane covering anterior side of the eyeball.
4. Light passes through -----, ----- humor, ----- in iris, -----, -----humor and reaches retina.
5. Inside retina light 1<sup>st</sup> passes through ----- cells, -----neurons and -----or ----- cells.
6. Muscles in -----regulate the amount of light entering the eye through pupil.
7. Eyes focus on far objects when ciliary muscles are -----, suspensory ligament is ----- and lens is thin.
8. Eyes focus on near objects when ciliary muscles are -----, suspensory ligament is ----- and lens is thick.
9. -----is anterior transparent part of eyeball and is continuous with sclera.
10. Anterior cavity is filled with ----- humor and posterior cavity is filled with -----humor.
11. ----- are activated by dim light and give black and white images; ----- are stimulated by bright light and give colored images.
12. ----- secretes aqueous humor and ----- delivers it back to venous blood.
13. ----- is ring like body and has muscles to change thickness of lens to focus eyes.
14. Maximum refraction (bending of light rays) to focus images in eye is done by -----.
15. Blindness caused due to clouding of lens = opacity of lens is -----.
16. Blindness caused due to very high aqueous pressure (due to blockage of Canal of Schlem) is -----.
17. Inability to see clearly far objects is -----; and inability to see clearly near objects is -----.

18. Olfactory epithelium lies in ----- of nasal cavity.
19. Vapors must ----- before can stimulate olfactory cells.
20. ----- stimulate sour tasting = gustatory cells.
21. -----and other organic molecules stimulate sweet tasting gustatory cells.
22. Alkaloids and some other organic compounds stimulate bitter tasting gustatory cells.
23. ----- taste is recently discovered by Japanese scientists and help to find beef taste of steak, tang of aging cheese and yummy taste of some foods.
24. ----- is the organ of hearing and balance.
25. 3 small bones ----, -----, and ----- are present in middle ear.
26. Stapes passes sound energy to ----- window.
27. ----- is responsible for equilibrium; and ----- for hearing.
28. Sensory hair cells of Organ of Corti lie on ----- membrane and are stimulated by -----.
29. Cochlear duct is filled with fluid -----.
30. Hair cells get depolarized when their hair hit and bend against ----- membrane.
31. 1 ----- is present in each utricle and saccule (vesicular sacs); detects ----- equilibrium.
32. 1 ----- is present in each ampulla of 3 semi-circular canal and detects ----- equilibrium.
33. ----- nerve carries information for equilibrium and ----- nerve for hearing.