Special Senses Guided Notes

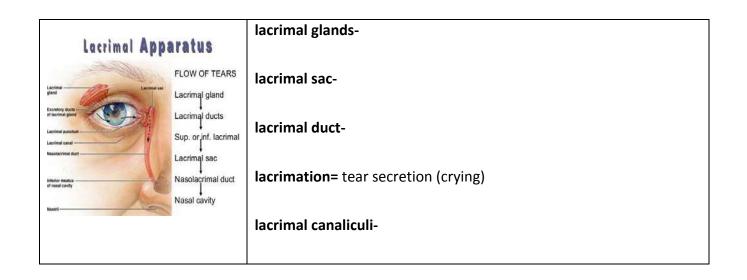
PART 1 of 2: THE EYE

FUNCTION= To SEE! (to receive images and transmit them to the brain)

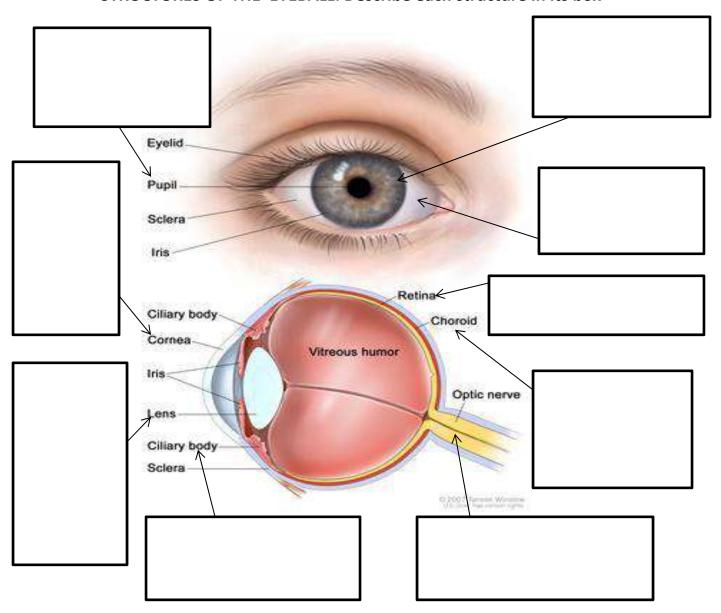
Optic-	Ocular –
Extraocular-	Intraocular-

The 'ADNEXA' of the EYE

STRUCTURE	FUNCTION/ definition	PATHOLOGIES
Orbit	The "eye socket" –	Fracture -
Eye muscles		Strabismus-
		Esotropia-
Binocular-		L30ti opia-
		Exotropia-
Evolid	Drotost avas from	Planharantasia
Eyelid Blockage of a Chalazion meibomian gland	Protect eyes from:	Blepharoptosis-
meibomian gland		
Company of the Compan	Inner canthus-	Ectropion-
	Epicanthus-	
		Entropion-
Blockage of one of the sweat glands		
of the street guilles	~ ~ ^	Hordeolum-
	A A A	
		Chalazion-
	Normal Entropion Ectropion	
Euchrous /lashes		
Eyebrows/lashes		
Conjunctiva		Conjunctivitis-
Conjunctiva		Aka:



STRUCTURES OF THE EYEBALL: Describe each structure in its box



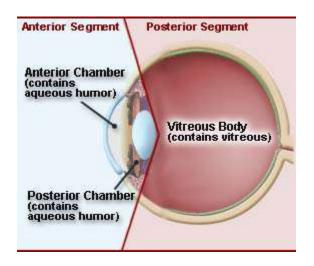
Segments of the EYE

Anterior

1/3 of the eye
Filled with aqueous fluid
Aqueous fluid:

Posterior

2/3 of the eye
Filled with vitreous humor
Vitreous humor:



ACTION OF THE EYES

- Accommodation –
- Convergence –
- Emmetropia -
- Refraction:

Pathologies of Refraction

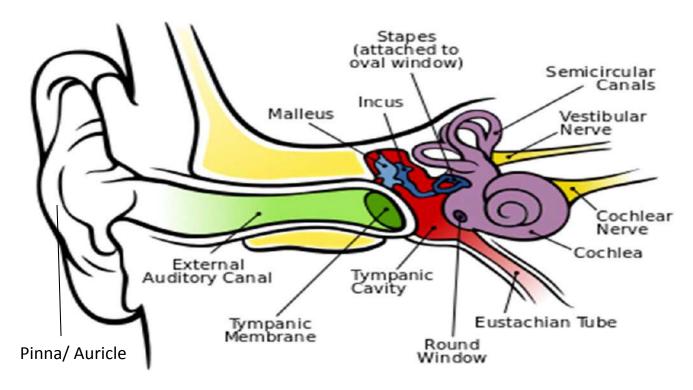
- o **Astigmatism** condition in which the eye does not focus properly because the cornea is improperly curved
- o **Hyperopia** aka ______ defect in which light rays focus beyond the retina
- o Myopia aka nearsightedness -

OTHER PATHOLOGIES OF THE EYE

Xerophthalmia	
Synechia	
Anisocoria	When the pupils are unequal in size
Scleritis	
Keratitis	Inflammation of the cornea
Corneal abrasion	
Corneal ulcer	An ulcer on the cornea that leaves a cloudy scar
Cataracts	Definition:
Macular Degeneration	A progressive condition that results in the loss of central vision, but not total blindness.
Nystagmus	
Glaucoma	
Nyctalopia	
Presbyopia	Describes the changes in the eye that occur with aging. (i.e. the lens becomes less flexible, the muscles become weaker)
Strabismus	

PART 2 of 2: THE EARS

FUNCTION: Allow for hearing and balance.



THREE SEGMENTS

1. THE OUTER EAR:

	Pathologies of the Outer Ear:
STRUCTURES: What is cerumen?:	Impacted cerumen-
Pinna / Auricle –	Otalgia-
External Auditory Canal -	Otomycosis- "swimmers ear"- a fungal infection of the ear canal

Otorrhagia-

2. THE MIDDLE EAR: Transmits sound waves to the inner ear

Structure	Function	Pathologies of the Middle Ear:
Tympanic		Myringitis-
Membrane (Eardrum)		Eustachitis-
		Otosclerosis- Fusing together of bones in the ear resulting in loss of vibration and, therefore, hearing.
Auditory Ossicles/ Bones		Otitis Media- inflammation of middle ear due to buildup
	1. Malleus/hammer,	
	2. Incus/anvil,	Serous OM-
	3. Stapes/stirrup	
		Purulent OM-
Eustachian Tubes		

THE INNER EAR

Structure	Function	Pathologies of the Inner Ear:
Oval Window		Labrynthitis
Cochlea		Vertigo-
Cochlear Duct	Located within the cochlea and is filled with fluid that vibrates when sound waves strike it.	Meniere's Syndrome-chronic disease that has 3 main symptoms: vertigo, hearing loss, and tinnitus.
Semicircular Canals	Contain endolymph and hairlike cells that bend in response to head movement. These set up impulses in nerves to help maintain balance/equilibrium.	Tinnitus-
Auditory Nerve		

Normal Ear Actions

Air Conduction -

Bone Conduction –

Hearing Loss

Deafness – complete or partial loss of the ability to hear

Conductive Hearing Loss -

Noise-Induced Hearing Loss -