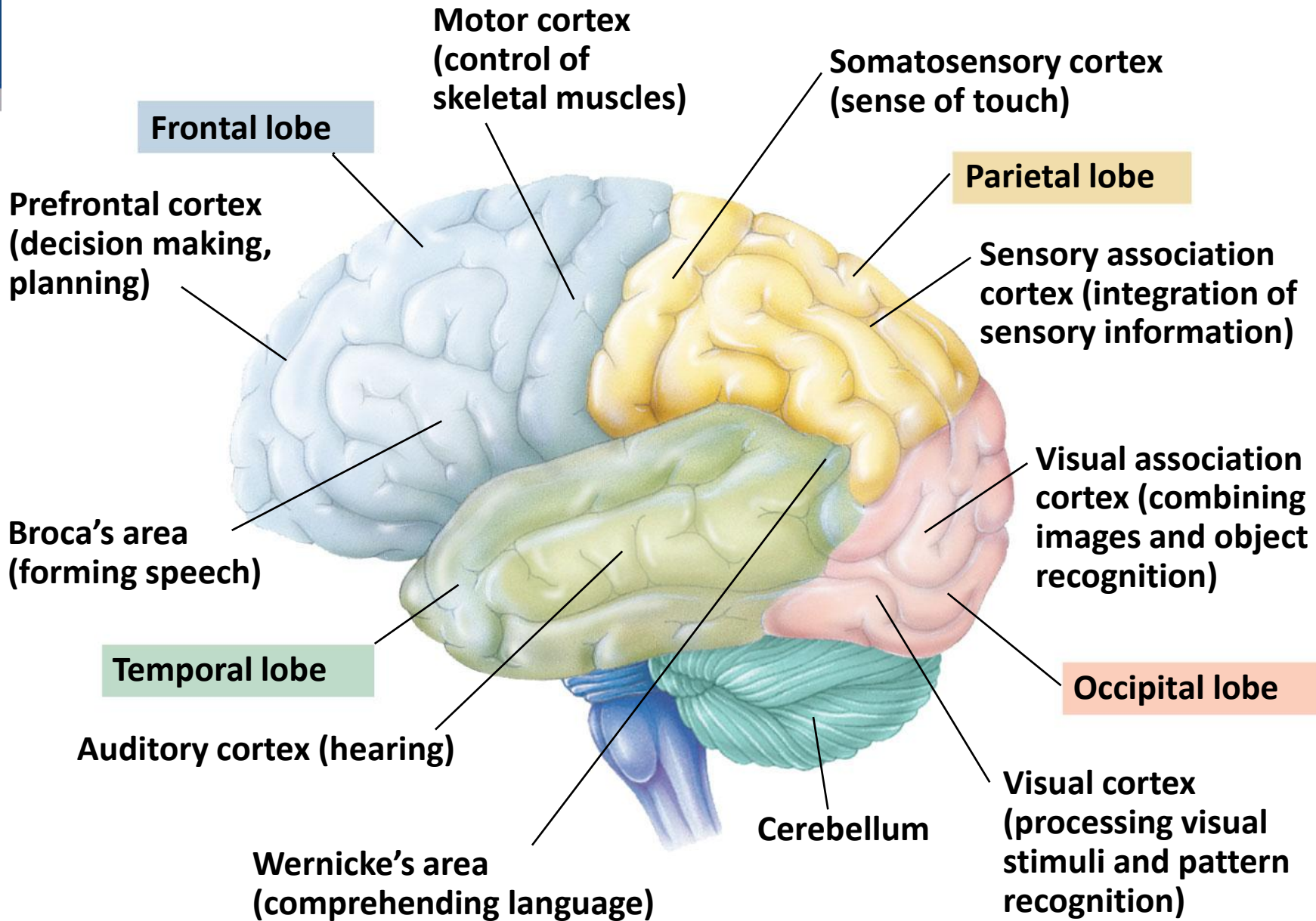




## Nervous System: Part VI

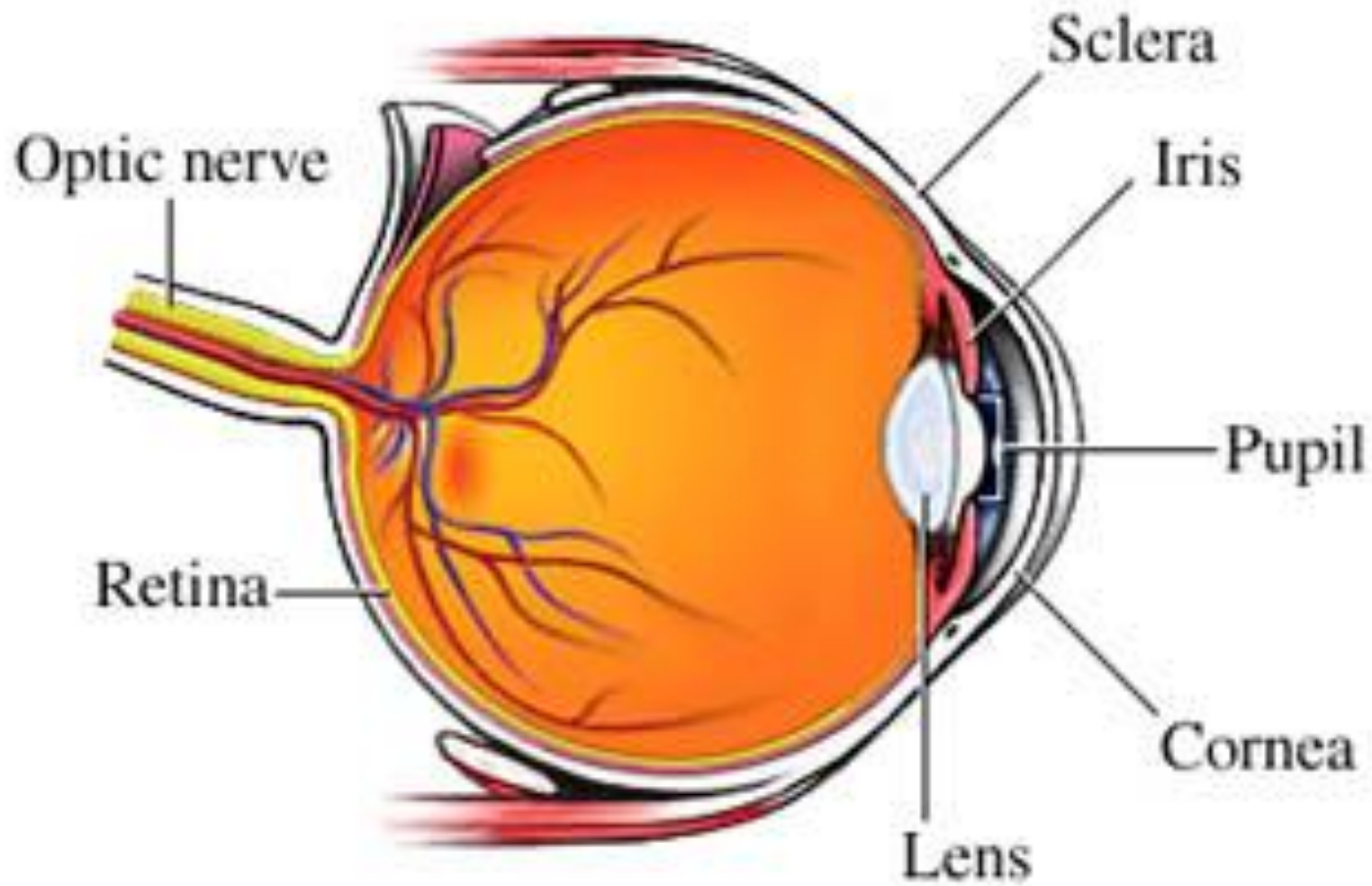
### Specialized Receptors: Eyes and Ears

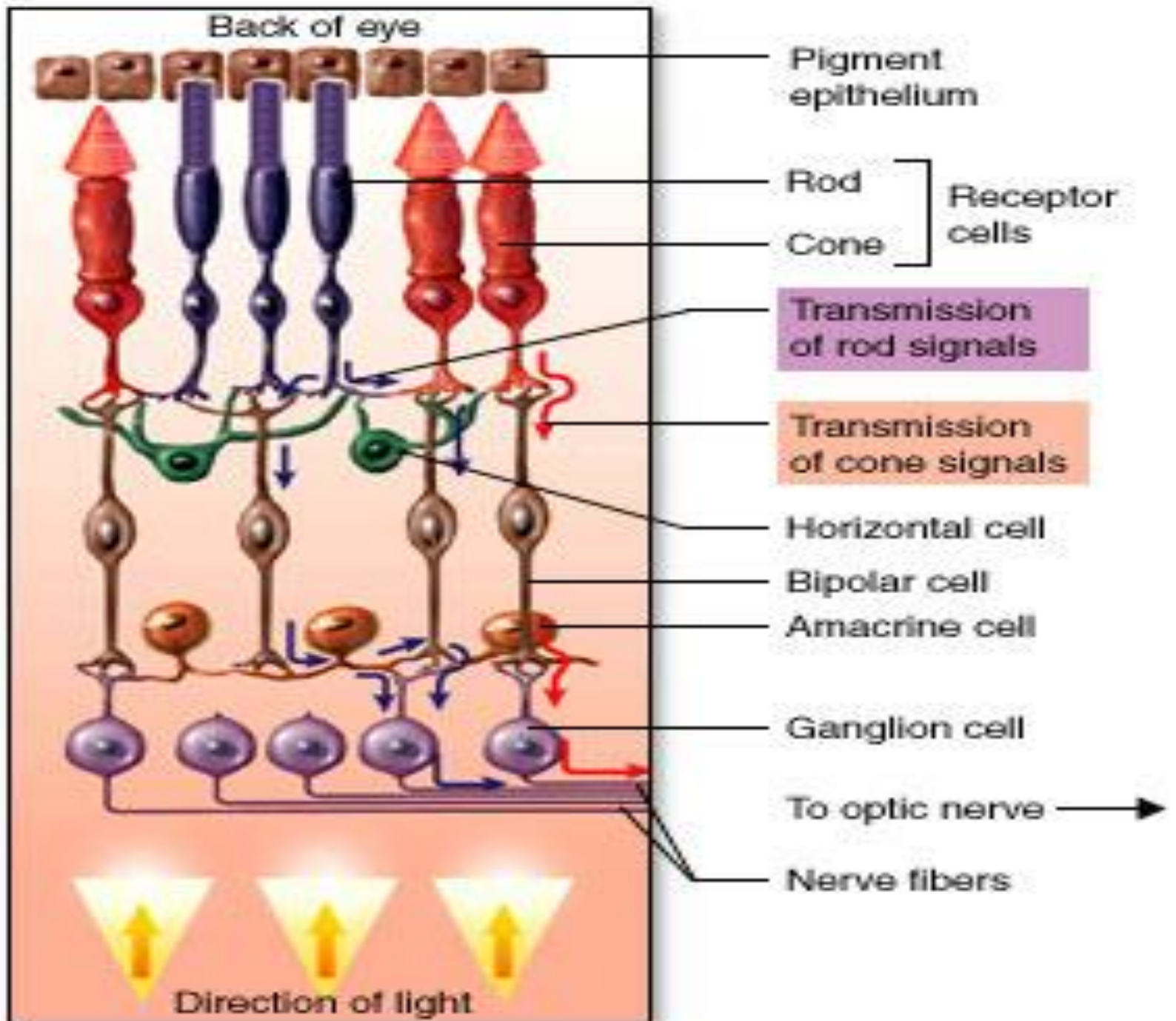


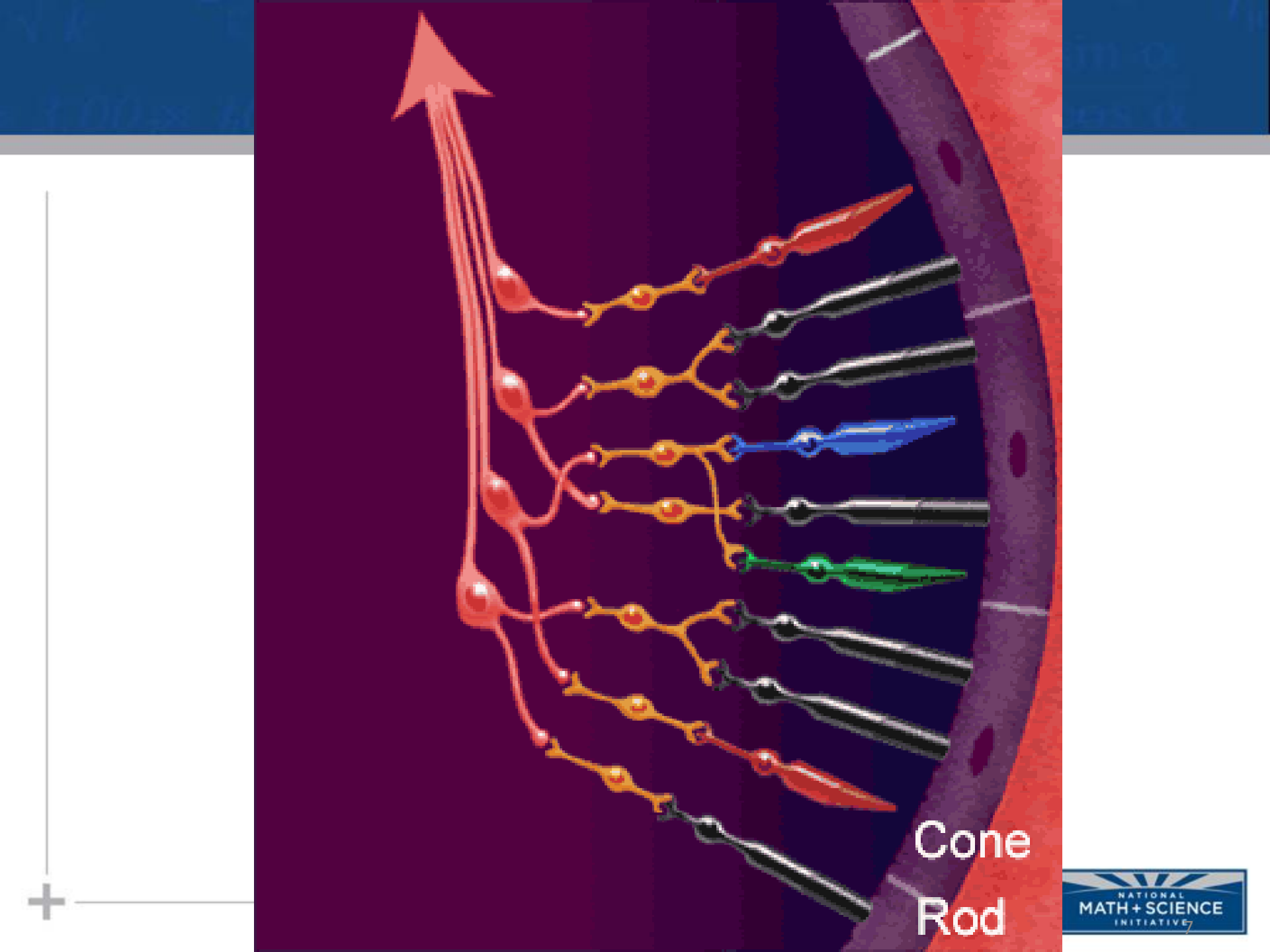
# The Human Eye

The two chambered organ which takes in light waves, translates them into signals, and sends these signals to the brain.

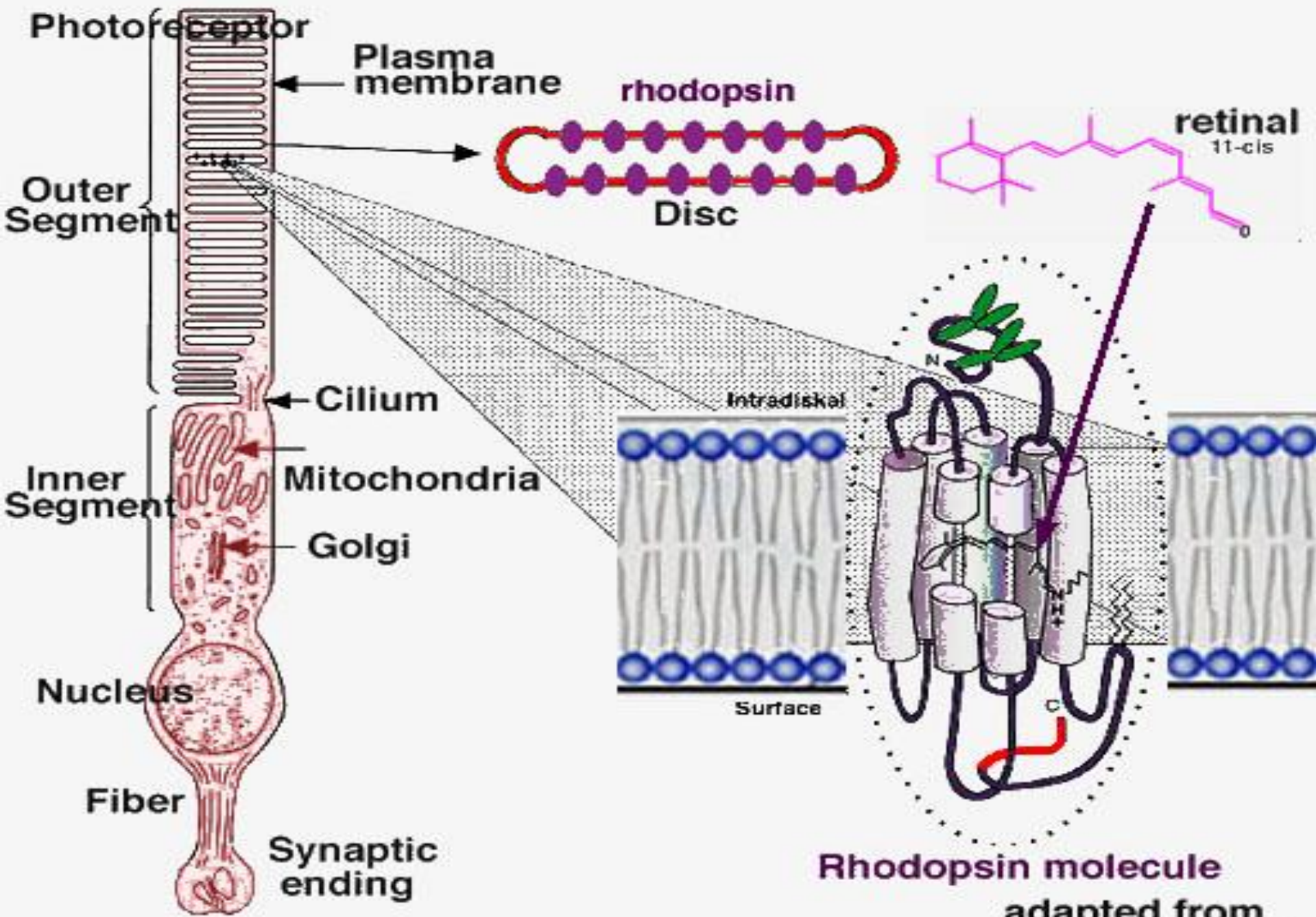






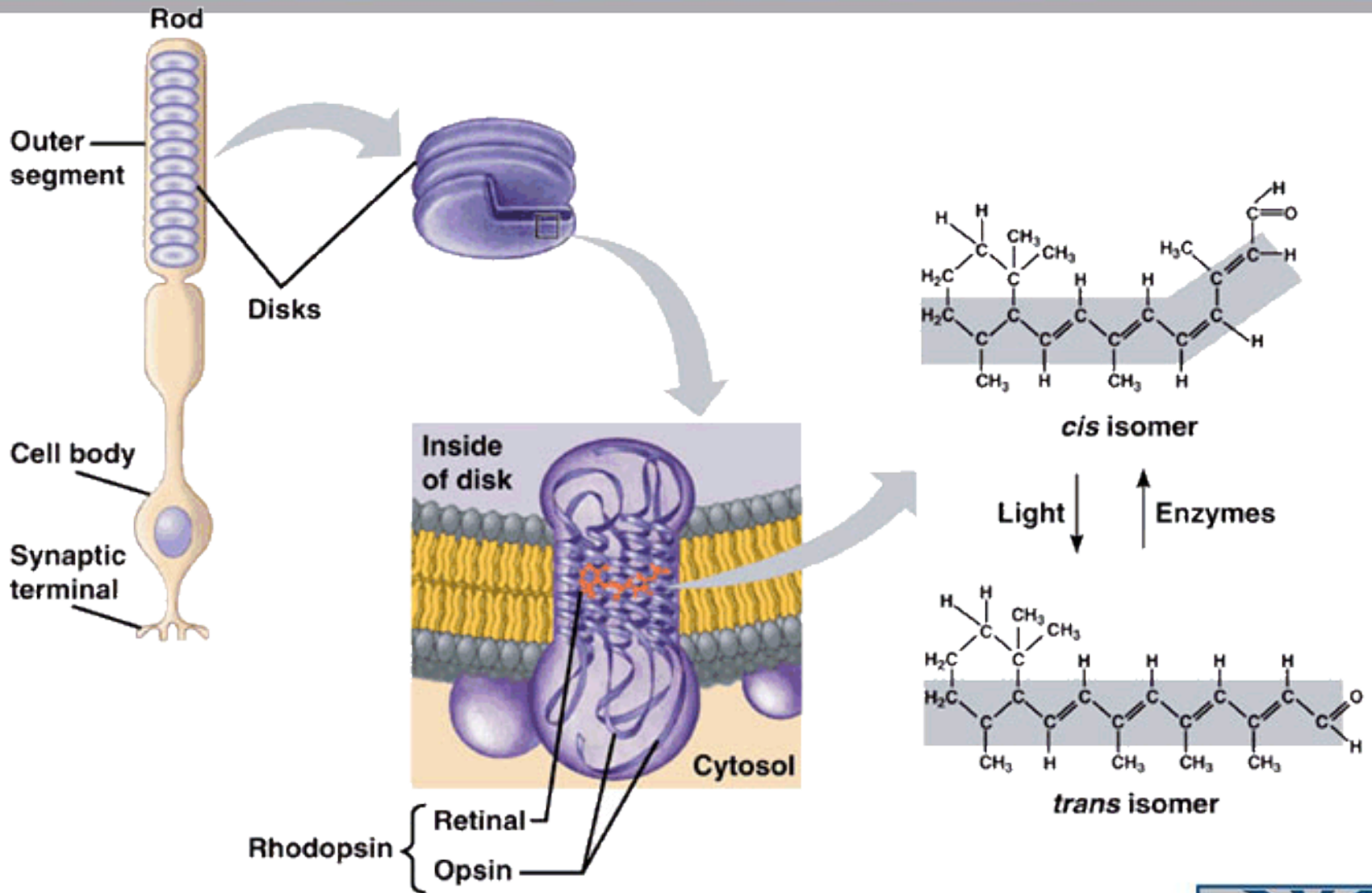


Cone  
Rod





# Retinal



# Sound Transduction in the Human Ear

## Photosensitivity

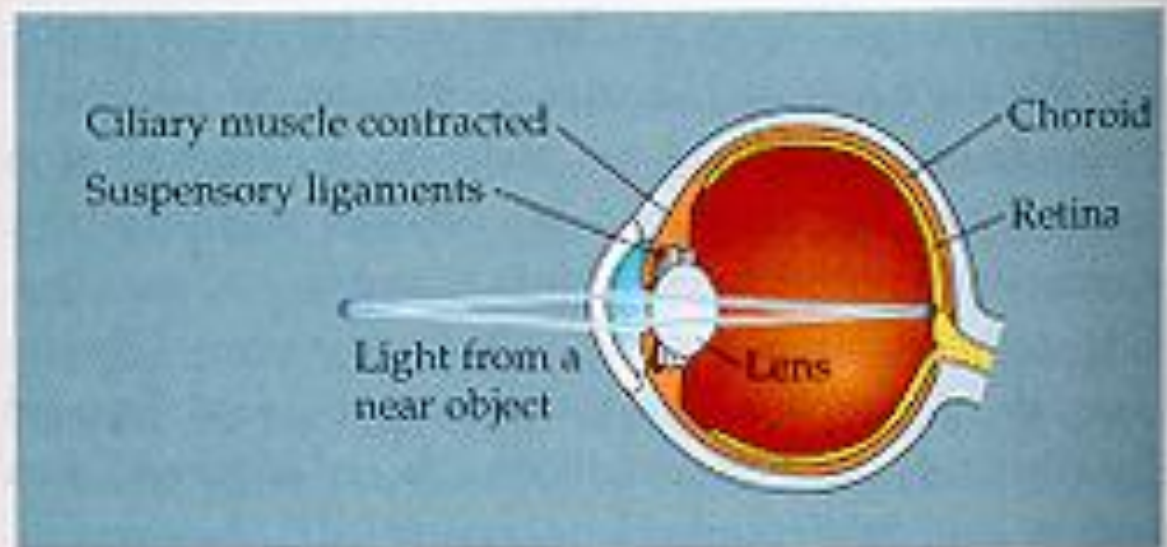
© Sinauer Associates, Inc.

$$(a - b)^2 = a^2 - 2ab + b^2$$

**Why do you have a  
Blind Spot?**

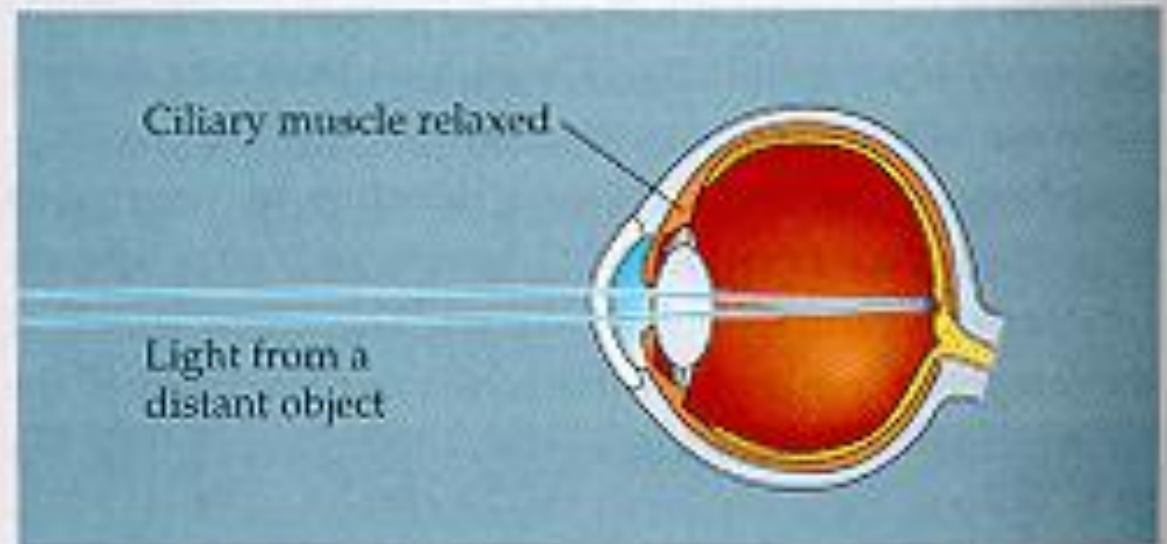
# The Lens

Near Vision  
-spherical lens



(a) Near vision (accommodation)

Distance Vision  
-flattened lens



(b) Distance vision



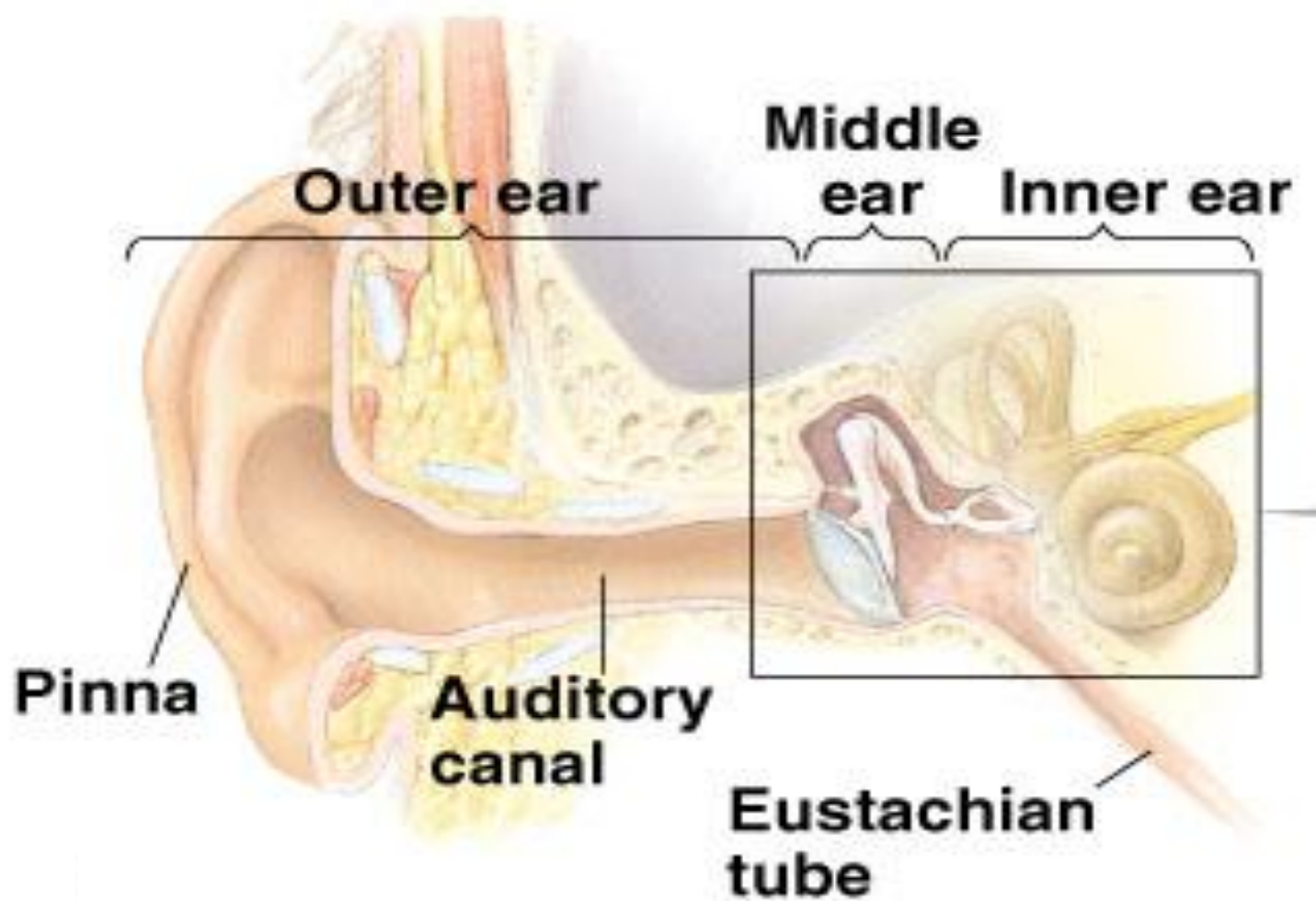
# The Human Ear

The three part organ which takes in sound waves, translates them into signals, and sends these signals to the brain.

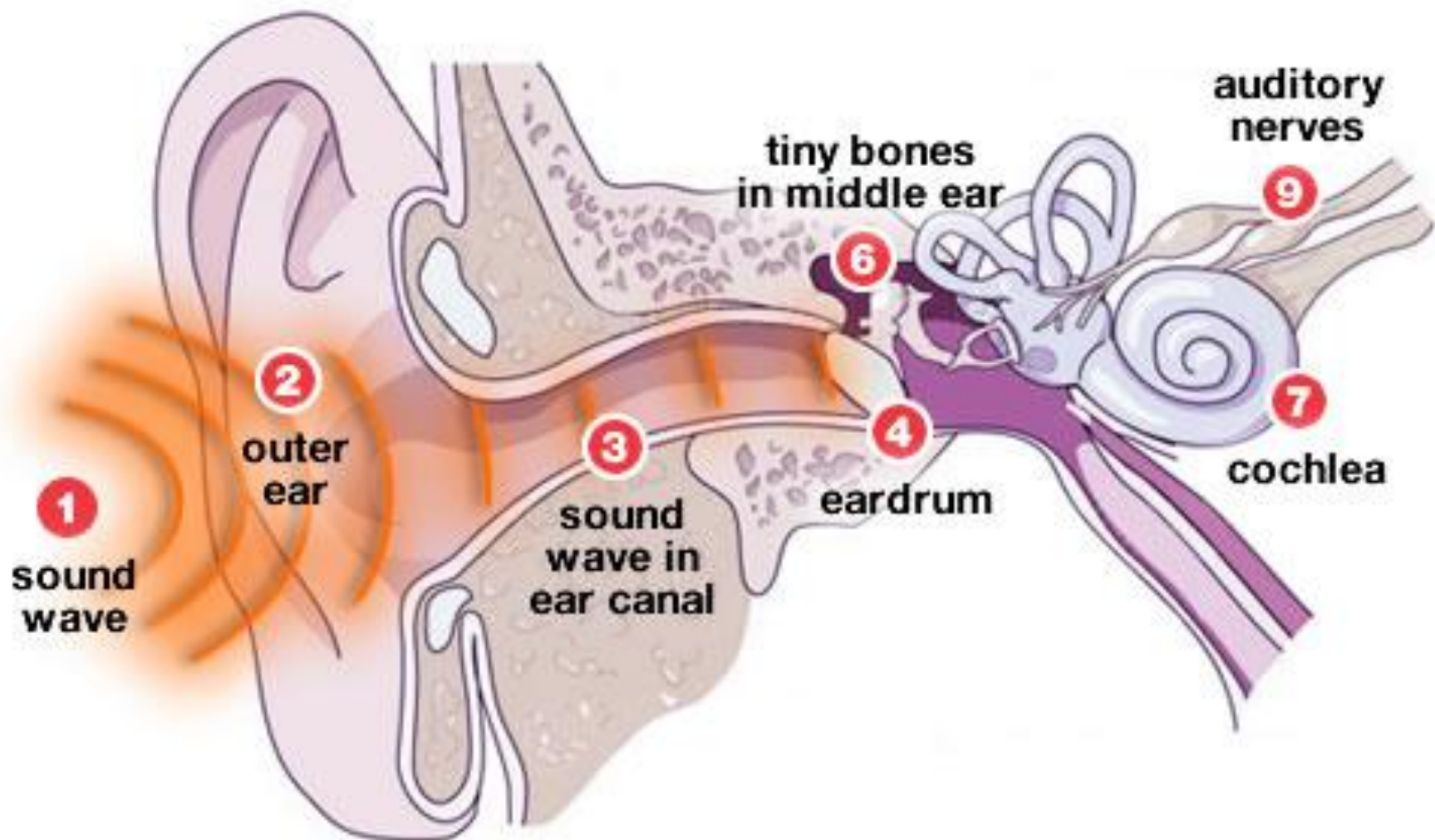
$$(a - b)^2 = a^2 - 2ab + b^2$$

10/1/17

10/1/17



$$(a - b)^2 = a^2 - 2ab + b^2$$



# Sound Transduction in the Human Ear

## Sound Transduction in the Human Ear

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