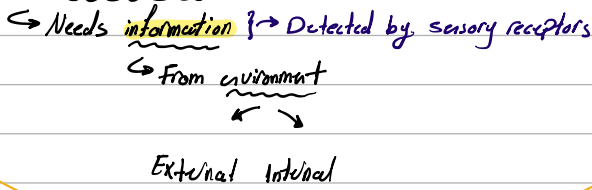


Critical thinking  
in studying

\* Nervous system: Control



↳ Sensory function of nervous system  
↳ Through PNS not CNS

⇒ Next, I want to process these information ⇒ Make decision  
↳ compare & contrast these information to previous information we have.

↳ Integrative function of nervous system  
↳ Through CNS not PNS

+ Nervous system



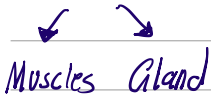
\* As we go up, more complicated processing occur.

↳ Depends on previous information / Experiences #.

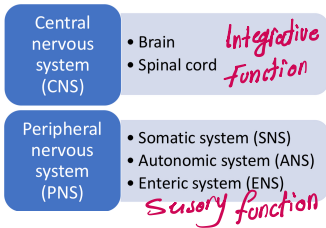
\* Decision will come out



Motor



Divisions of nervous system

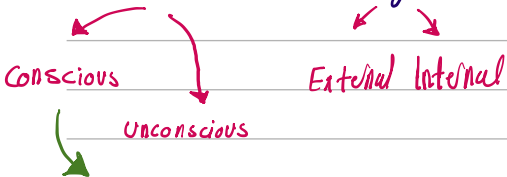


\* Note: Spinal cord can make decisions

↳ why?  
↳ It's part of CNS

+ Sensation &

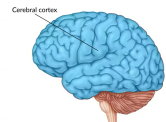
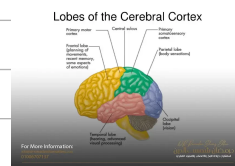
↳ Awareness in the changes of Environment



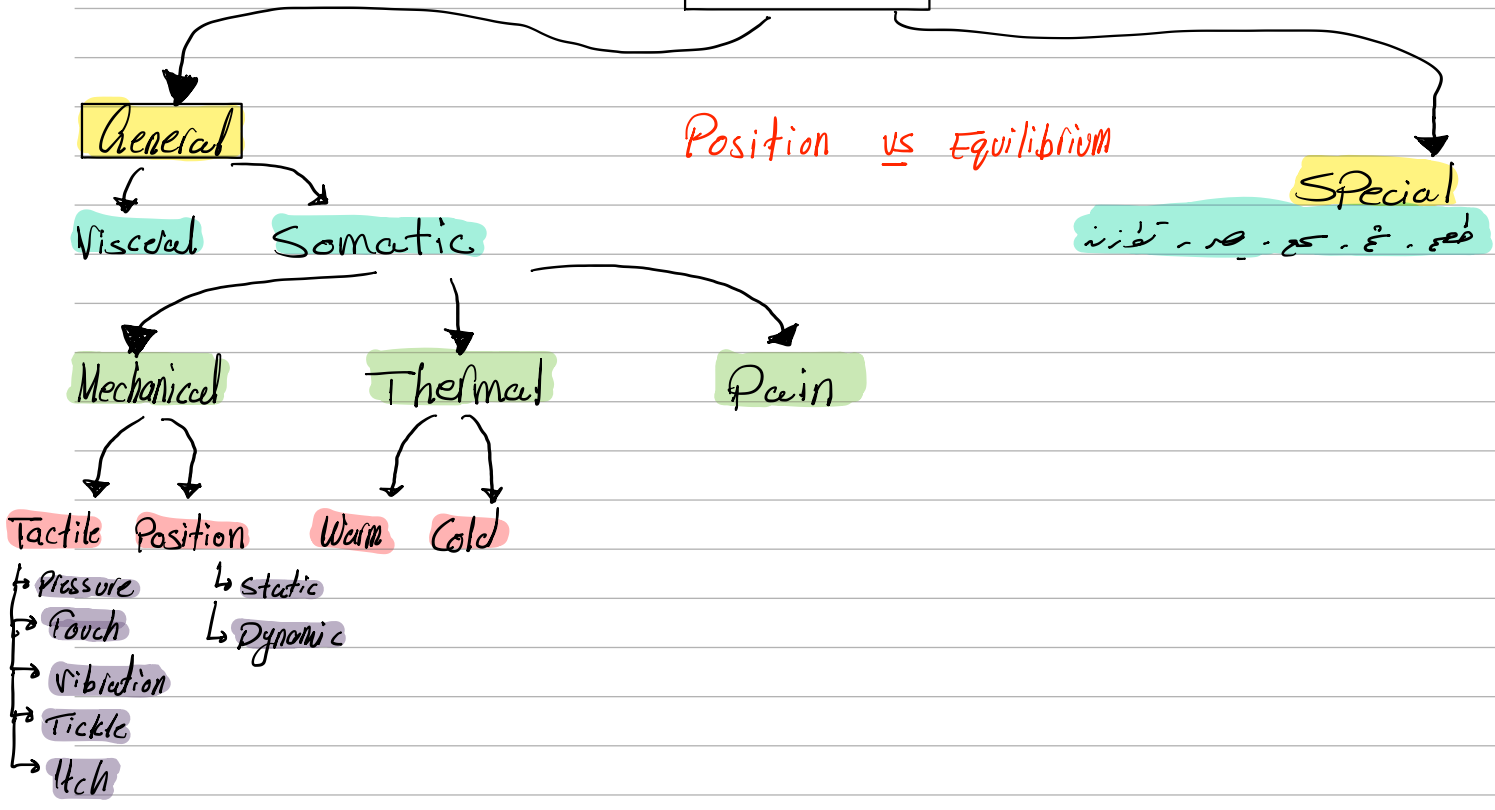
\* Perception

↳ Conscious awareness

→ Happens when Integrative function [Processing] occur in Cerebral cortex



# Senses



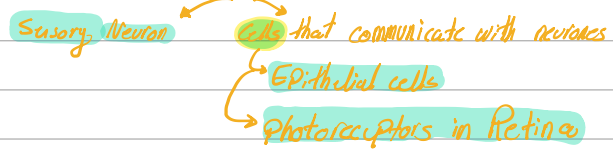
Position vs Equilibrium

vision, hearing, taste, smell

## \* Sensory receptor

↳ specialized structures in the body that can detect changes in the Environment

↳ what are these structures



① change in the Environment [stimulus] → Detected by sensory receptor [Energy]

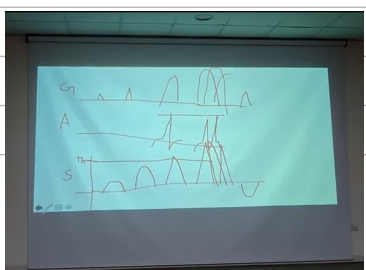
stimulating sensory receptor

Transduction [Energy → graded receptor potential]

Transmit this signal to CNS

\* Action potential = nerve impulse

CNS



	Graded	Action / Potential
Threshold	no	yes
Distance	short	Long (propagated)
Duration	=	=
stimulus-Amplitude	↑-↑	↑-same
~ Frequency	↑-same	↑-↑
~ summation	↑-↑	↑- Absolute refractory period
		All or none

## Characteristics of sensory receptors

- ① Sensory receptor is specific to certain stimulus
- ② Receptive field: Region that detect these changes  
Discrimination Ability increases with decrease in Receptive field

