Central

1 emons & ystem

Main function

- -Process information recieved through the Sensory sustems & other parts of the body
- activates appropriate actions in response

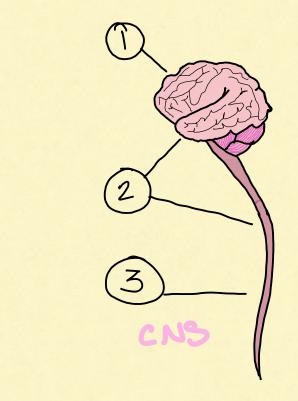
Communication

- Conveys messages to the peripheral nervous system sending messages back up through the spirial cord up to the brain for processing

The 2 Divisions of The CNS

1. Brain 2 Sancil Corol

- 1. Brain
 - 2. Central Nervous System
 - 3. Spinal Cord



The Nervous System

Central N.S

BRAIN Spinal Con

Forebrain

Midbrain

Hind brain

The Brain

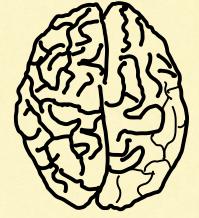
- Intricate network of cells
- Processing information recieved through nend pathways from the body
- Has the responsibility to direct responses

· Corpus callosum

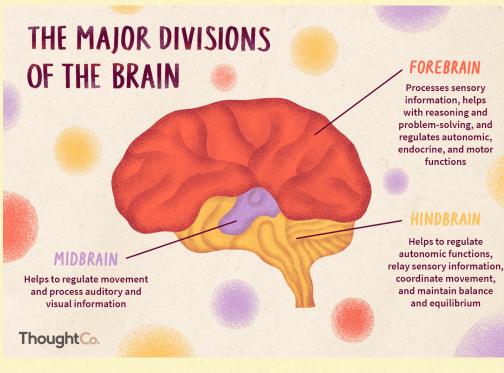
L) A thick band of newerl fibers that connect the Cett 8 right hemisphere

Allows the 2 humispheres to communicate

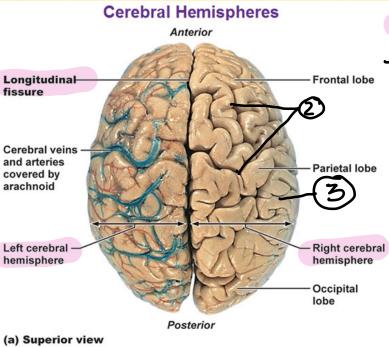
MEDERMATION



REACTION



Forebrain -Ly contains the cerebral cortex 6 other structures that he beneath the corresp **FOREBRAIN** -thalamas
-hypothalamas
-pituitary gland
-limbic system Processes sensory information, helps ·Cerebral Cortex: associated wil higher lil processes such with reasoning and - Conscioussness - reasoning
- thought - language
- emotion - memory problem-solving, and regulates autonomic, motor cortex Planning & coordinating movement endocrine, and motor functions ·Prefrontal Cortex 19her-level cognitive functioning · Brocas area > essential for language Production > Damage = great difficulty product
(anguing of any form



Lft hemsphere -controls the right half
of the body

RGHT hemisphere -controls the left hulf
of the body

Cerebal Cortex

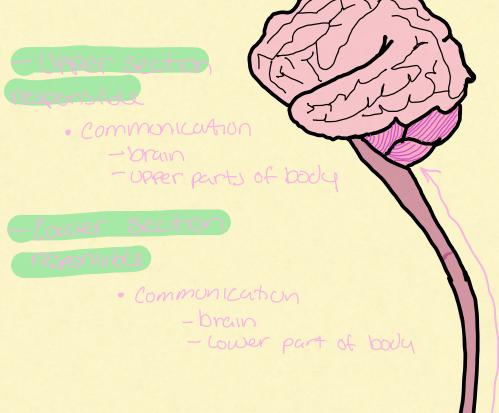
(2) Surface of brain

(3) Cyri

L) distinctive pattern of folds
or bumps

Sulci
L> grooves





- long, thin bundle of nerve tissue
- links the brain of Peripheral nervous system

Somatic Nervous System

- Associated whatthes that are conscious or usiontary
- Involved in the relay of Sensory & motor information to & from the CNS

- Efferent fiber ("morny away from)

L> Motor Neurons carrying instructions from CNS to the muscles

-> Sensory neurons, carrying sensory

apperent = avrive epperent = 1 xet A nerve = bundle of neurons

autonomic nervous system

-> Controls

- · Internal organs
- · 9 lands

-> Outside the realm of voluntary control

autonomic N.3 subdivided

Sympathetic Nervous System

> Involved in preparing the body for stress-related activities

Parasympathetic News System

-> associated will returning the body to routine, day-to-day operations