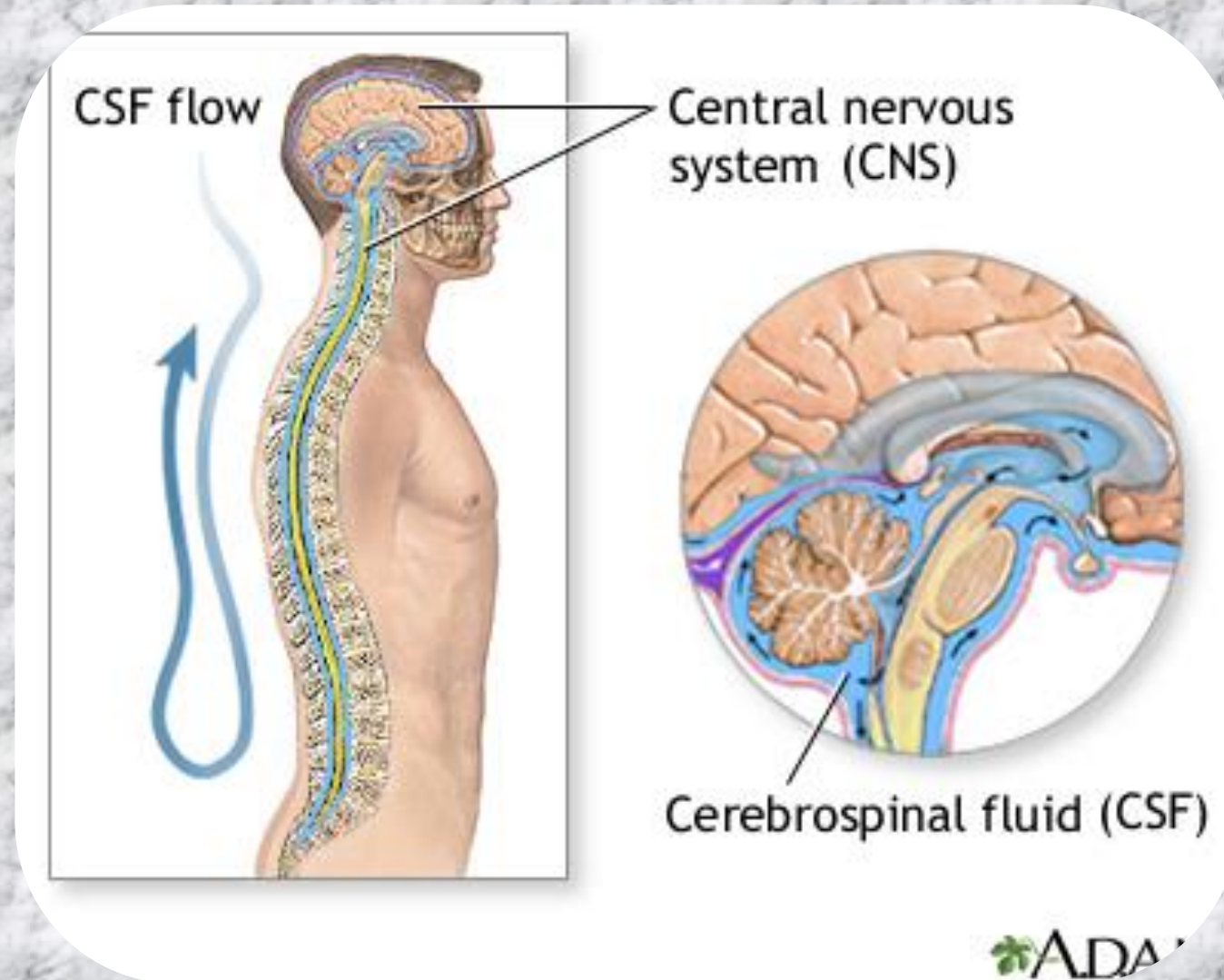




# THE BRAIN

# CNS = Spinal cord and brain



**Brain =**

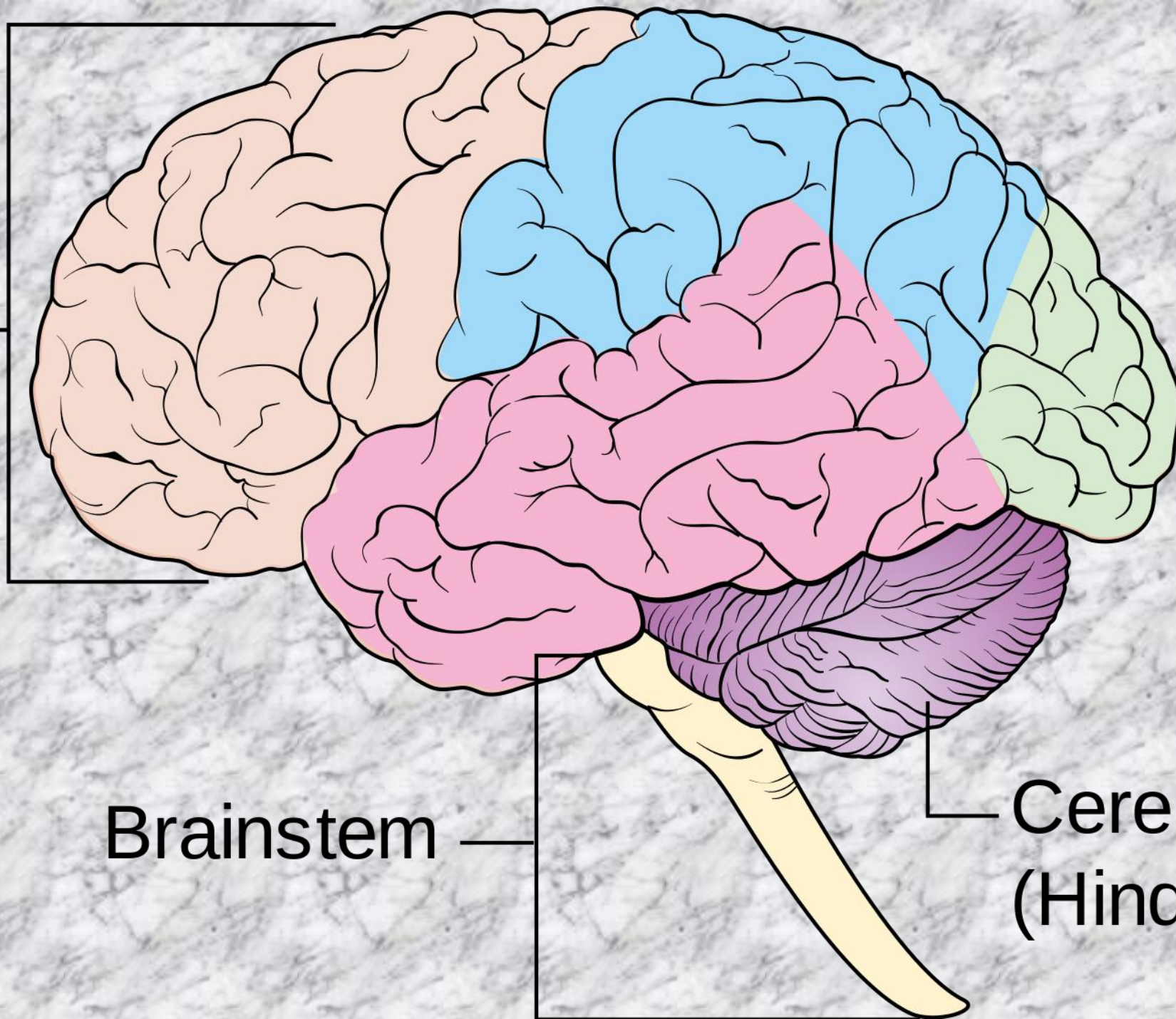
- **concentration of nerves**
- **coordinates nervous system**
- **surrounded by 3 membranes (meninges)**

**Cerebrospinal fluid (CSF) =**

- **between outer and middle membranes**
  - **shock absorber**



**Cerebrum  
(Forebrain)**

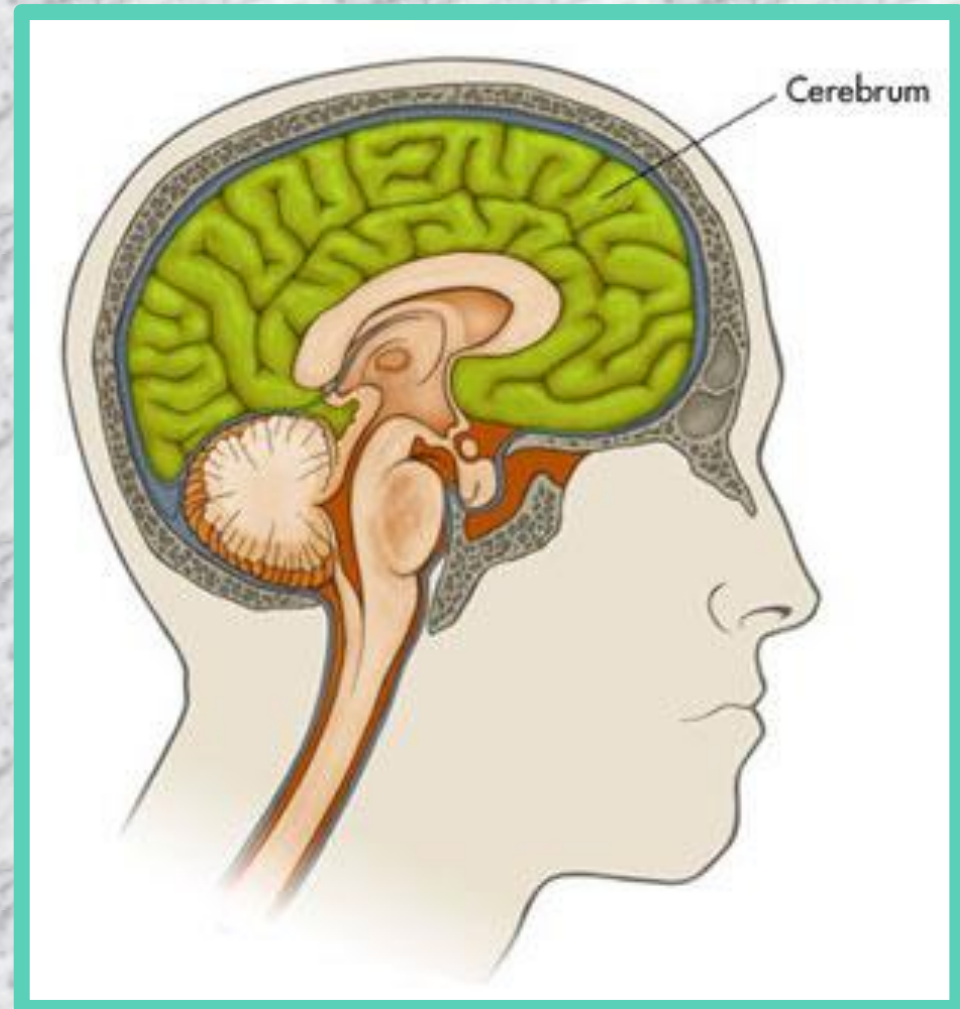


**Brainstem**

**Cerebellum  
(Hindbrain)**

# CEREBRUM

- **Forebrain (largest)**
- **Coordinating centre**
- **Stores sensory information**
- *Ex. Speech, reasoning, memory, Personality*
  
- **2 Sides (Left vs. Right)**
- **Corpus callosum = communication between the two hemispheres**





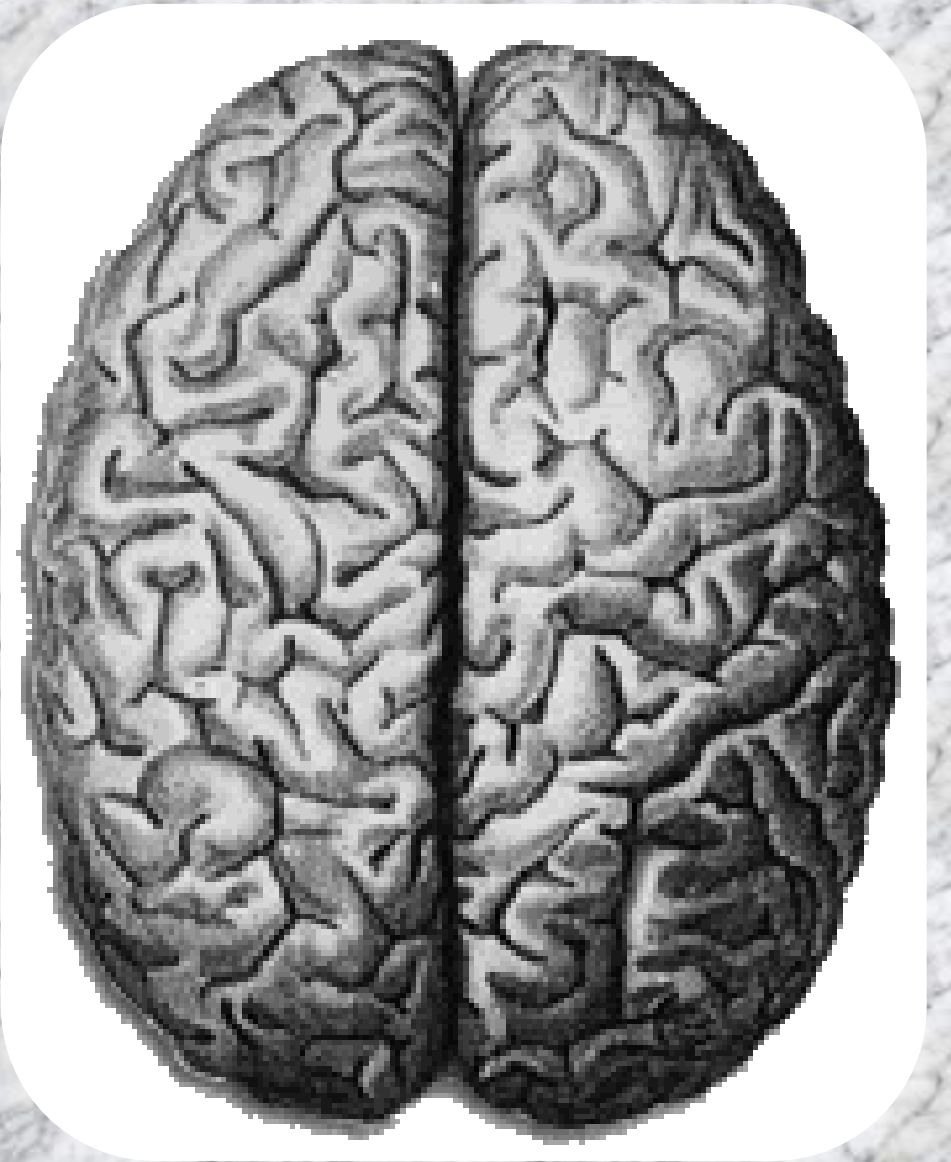
Corpus callosum bridges the right and left hemispheres of the brain.

Corpus Callosum



Cross-section of the brain

© Buzzle.com





$U = EB$   
 $R_1 = 13,5 \Omega$   
 $R_2 = 3 \Omega$   
 $R_3 = 20 \Omega$   
 $F_A = \rho g V$   
 $w = D$   
 $w = 0$   
 $w = BC$   
 $w = 0$

$= h \frac{c}{\lambda_0}$   
 Plank  
 $V_{in}$   
 $P = \bar{S}$

$w = \frac{mgL}{T}$   
 $T = \frac{2\pi}{\omega} = 2\pi \sqrt{\frac{m}{k}}$   
 $x = x_0 + vt$   
 $y = y_0 + vt$   
 $z = z_0 + vt$   
 Formula for's  
 $1) T = \frac{t}{n}$   
 $2) v = \frac{t}{t}$   
 $3) T = \frac{1}{f}$   
 $4) T = \frac{2\pi}{\omega}$   
 $5) v = \frac{2\pi r}{T}$   
 $6) v = \frac{v}{2\pi r}$   
 Physics - 10  
 Resistance  
 $w = BC, \dot{w} = 0$   
 $w = D, \dot{w} = A$   
 $\frac{dp}{p} + \gamma \frac{dv}{v} = 0$   
 $I = \frac{U}{R}$   
 $\sum_{n=0}^{\infty} \exp(-nDw/kT)$   
 Resistance light lower  
 $R = \frac{\rho \cdot l}{S}$   
 $Ax + Bx + Cx$   
 $S = ?$   
 $\sqrt{m^2 + n^2 + p^2}$   
 $\sqrt{A^2 + B^2 + C^2}$

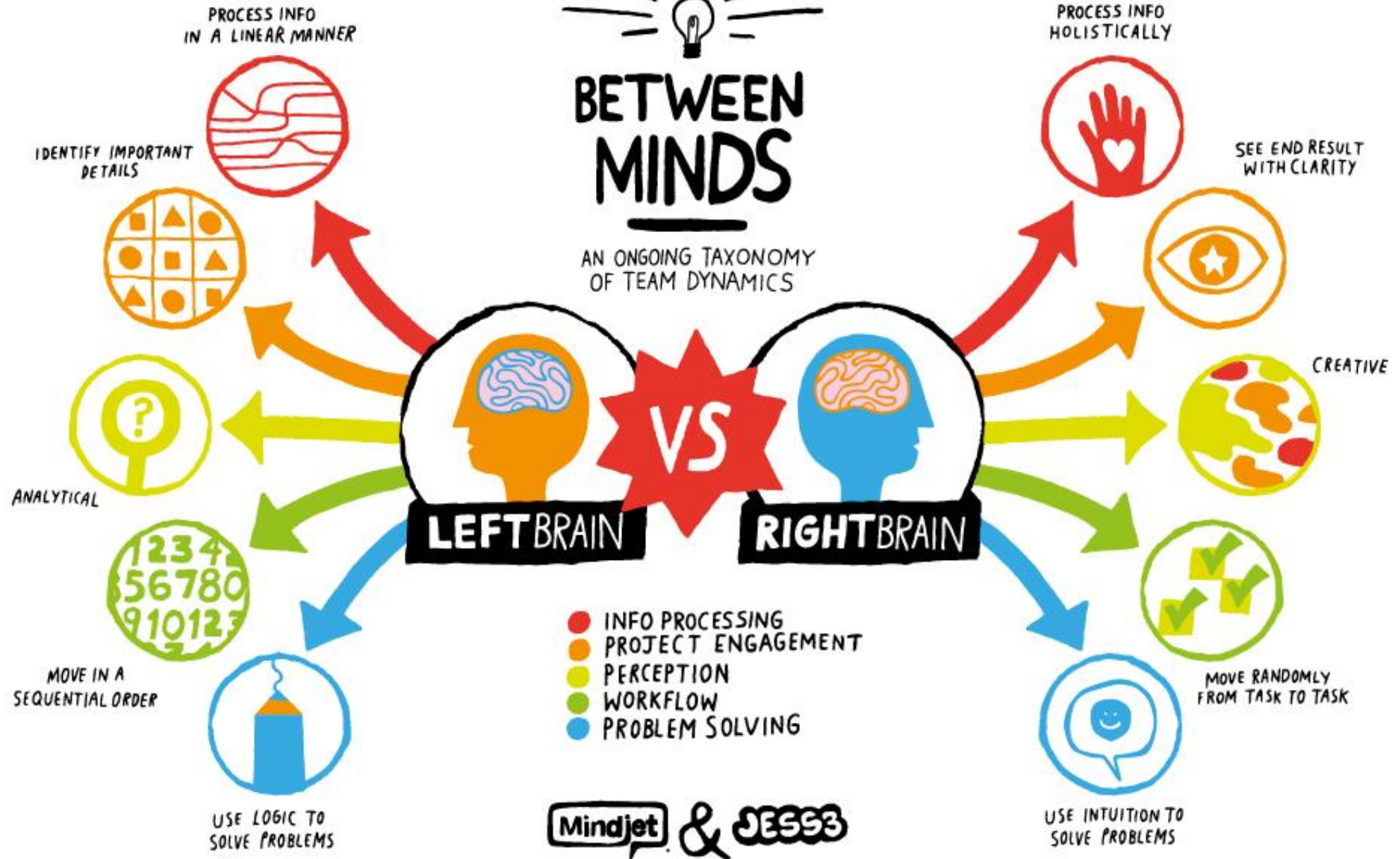






# BETWEEN MINDS

AN ONGOING TAXONOMY OF TEAM DYNAMICS



Mindjet & JESS3



## RIGHT-BRAIN FUNCTIONS

Art awareness

Creativity

Imagination

Intuition

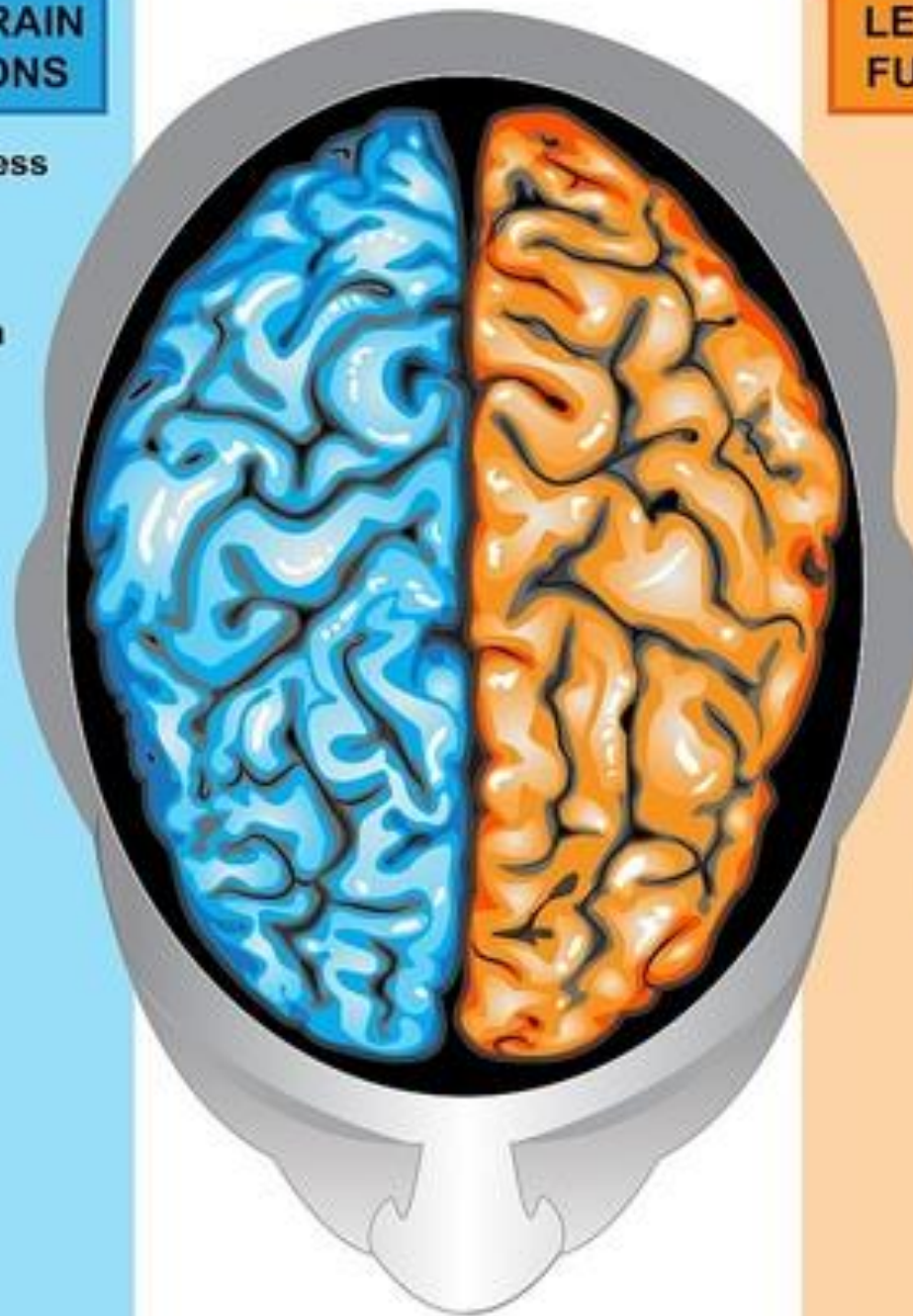
Insight

Holistic  
thought

Music  
awareness

3-D forms

Left-hand  
control



## LEFT-BRAIN FUNCTIONS

Analytic  
thought

Logic

Language

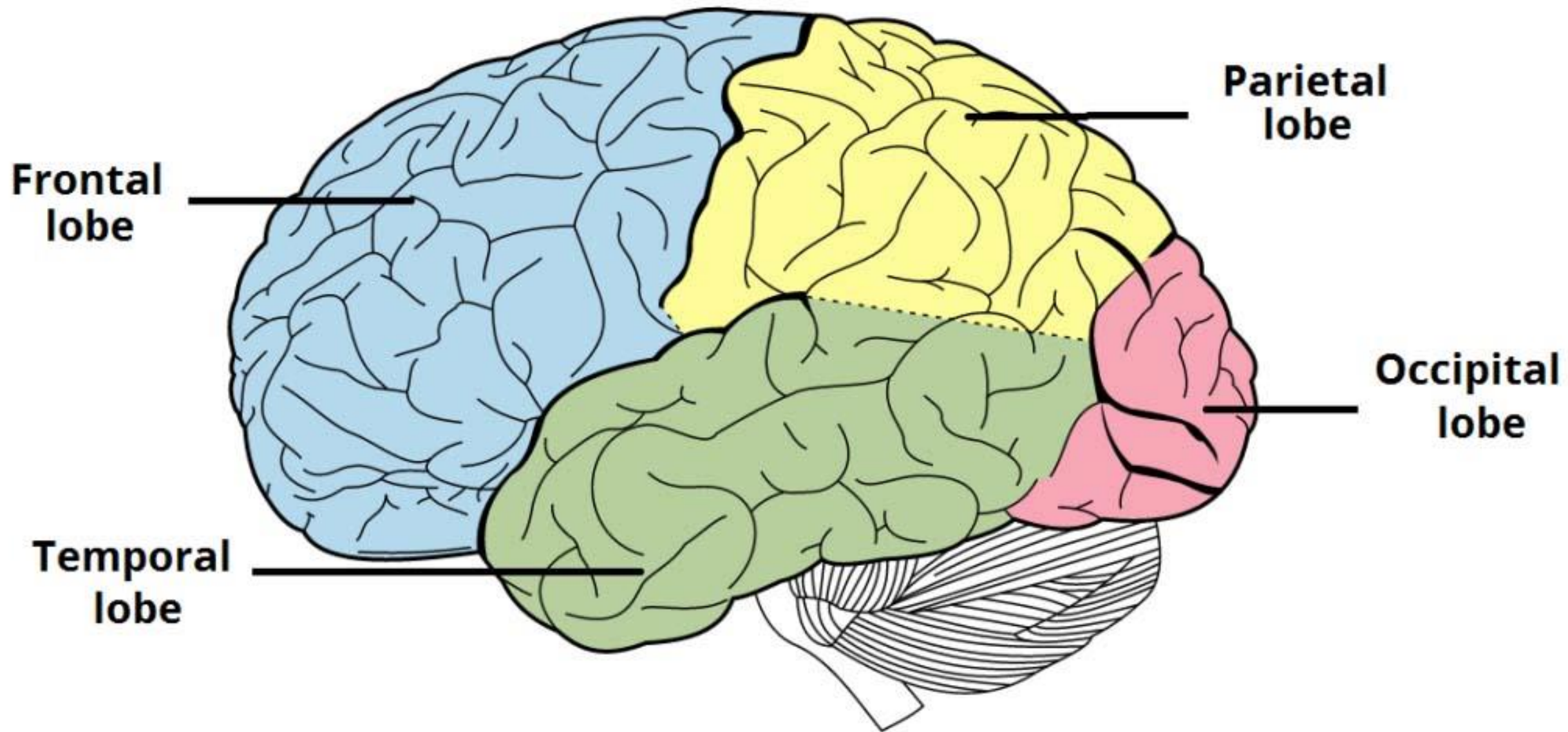
Reasoning

Science  
and math

Written

Numbers  
skills

Righy-hand  
control





# CEREBRUM

## **Frontal Lobe:**

problem solving, attention,  
personality

## **Parietal Lobe:**

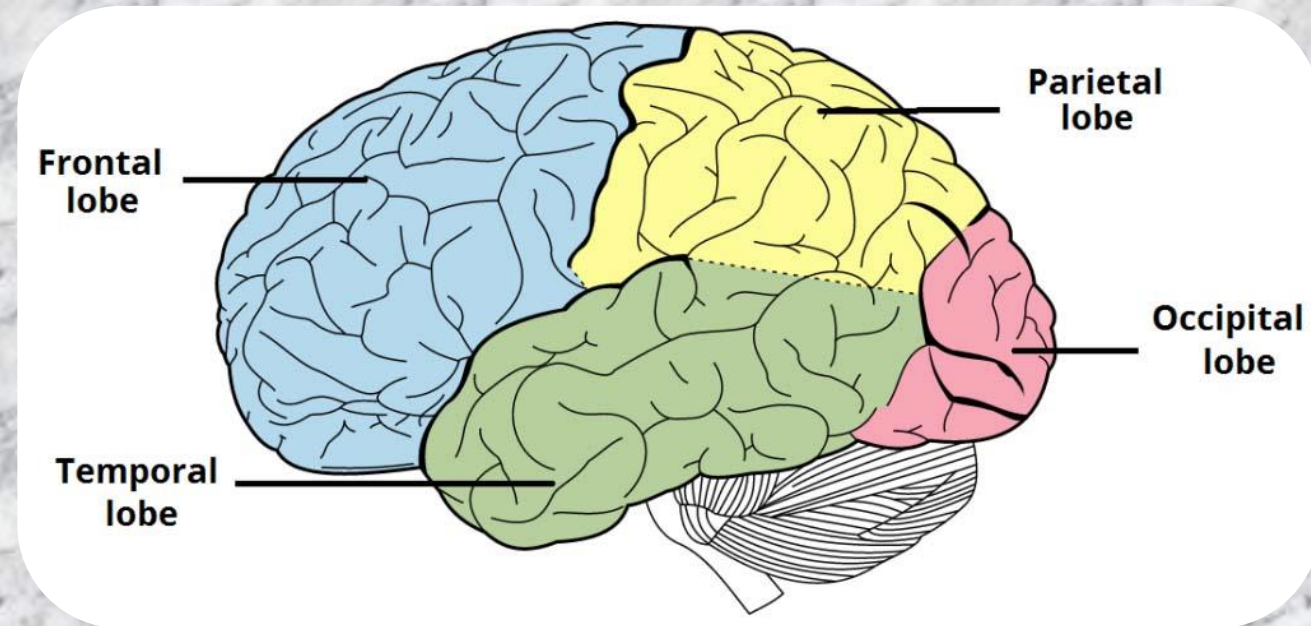
movement  
perception of senses

## **Occipital Lobe:**

visual processing

## **Temporal Lobe:**

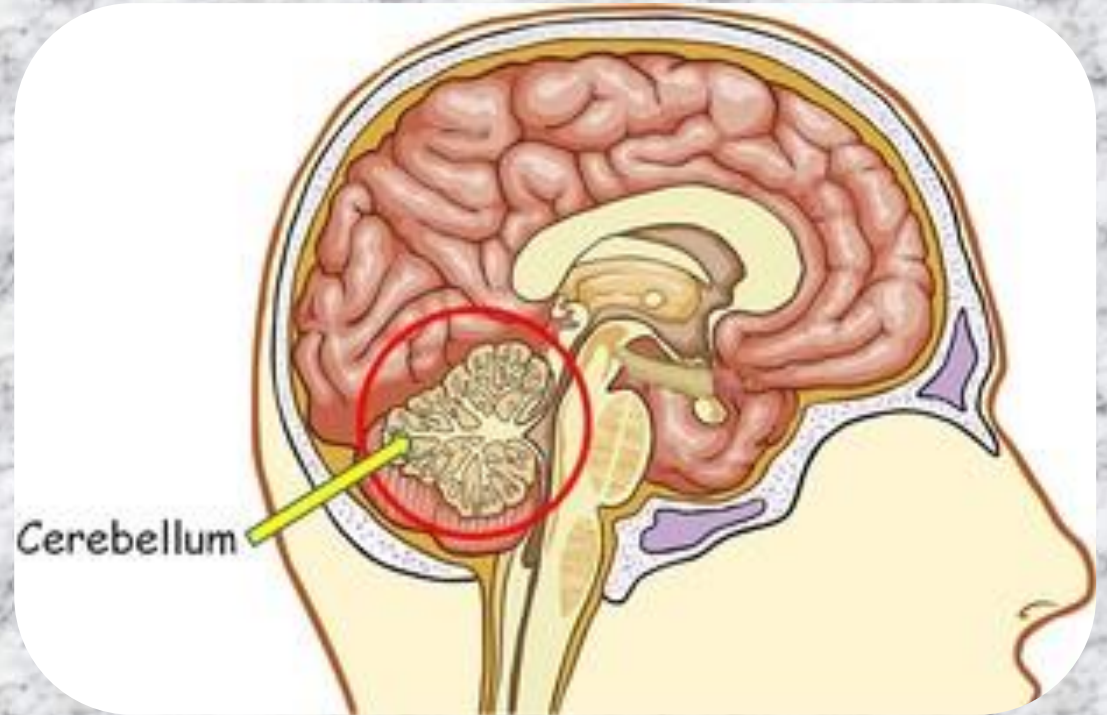
hearing, memory



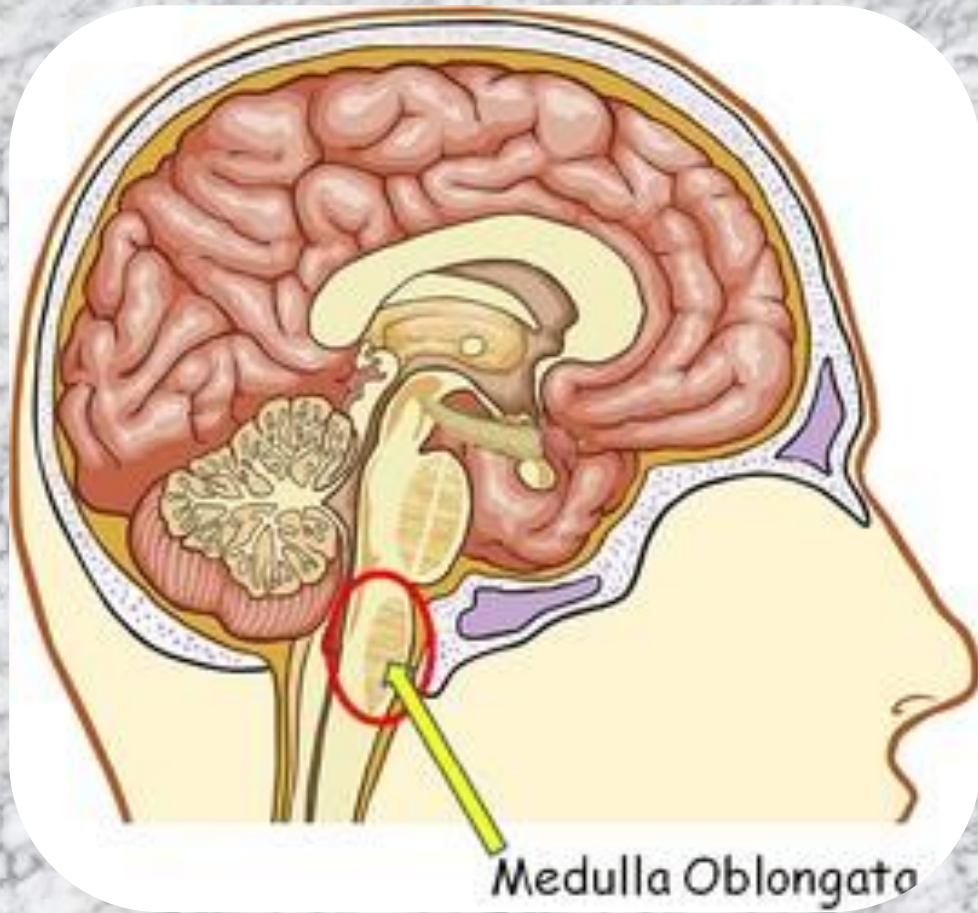




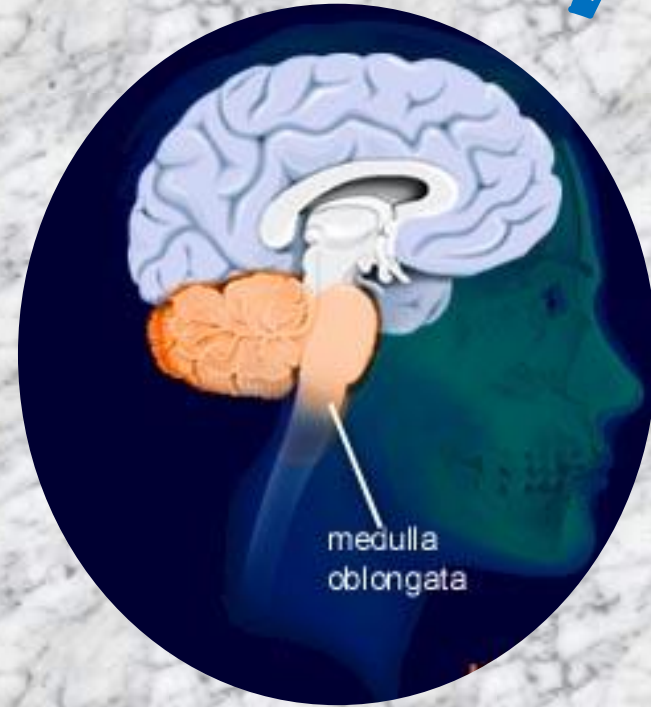
# CEREBELLUM



**Balance, posture and coordination**



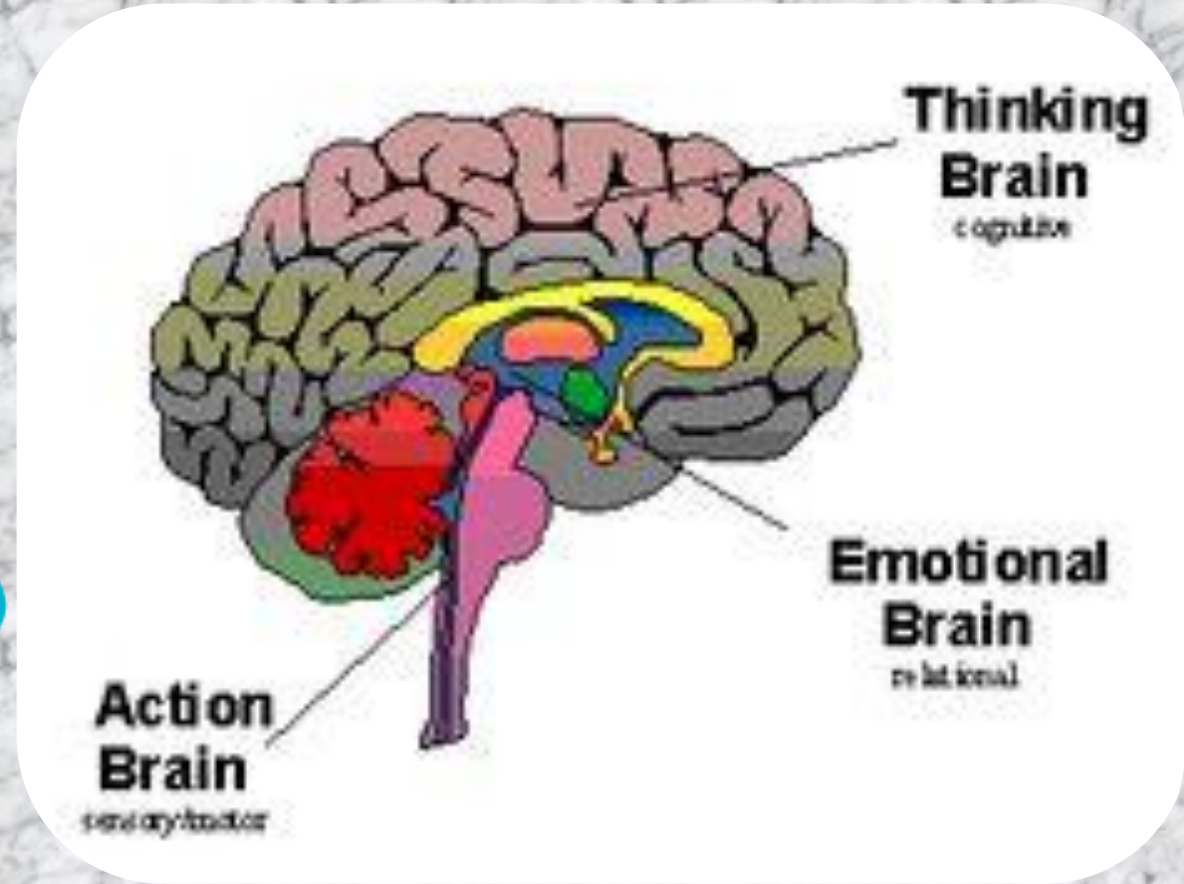
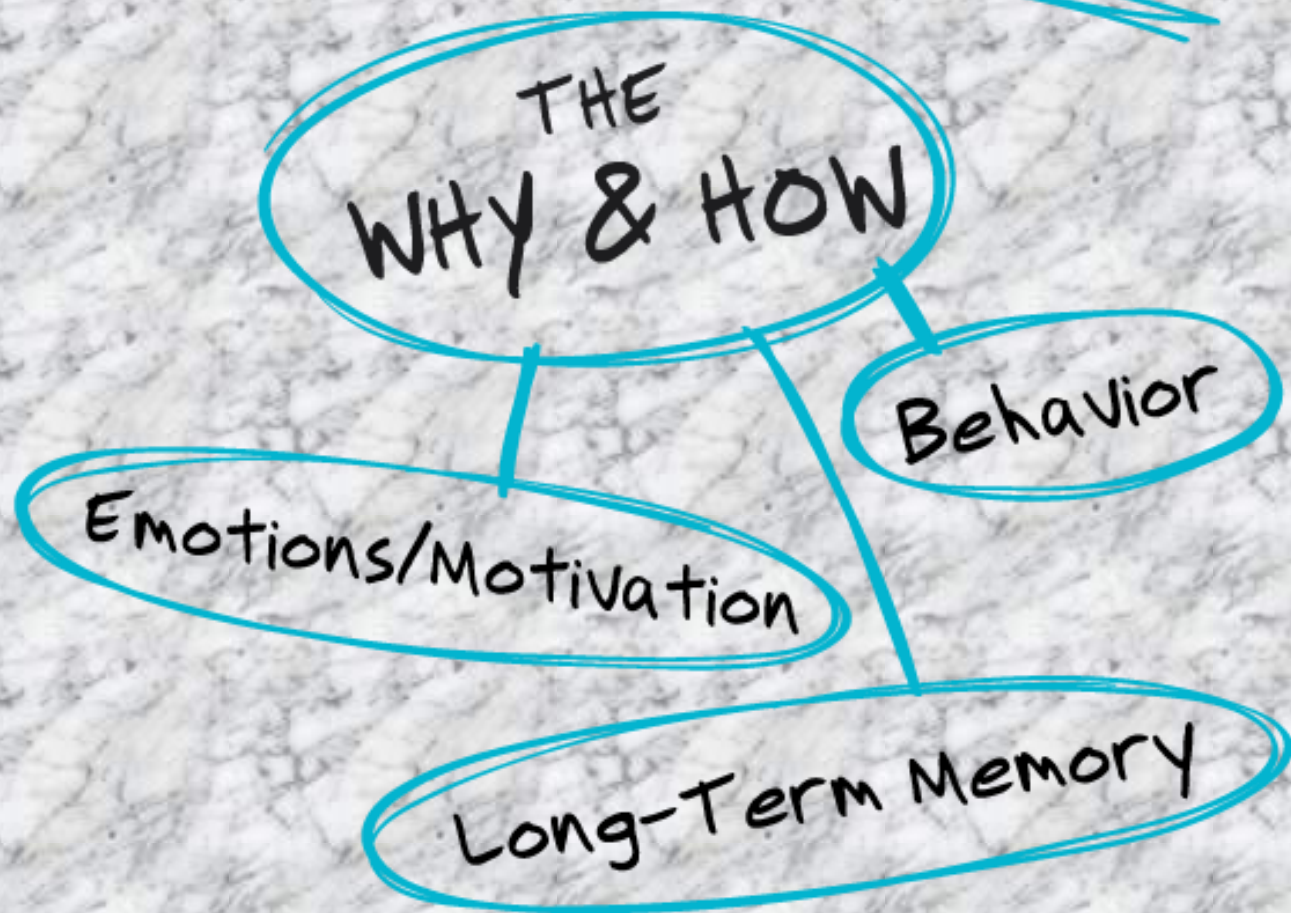
# MEDULLA OBLONGATA

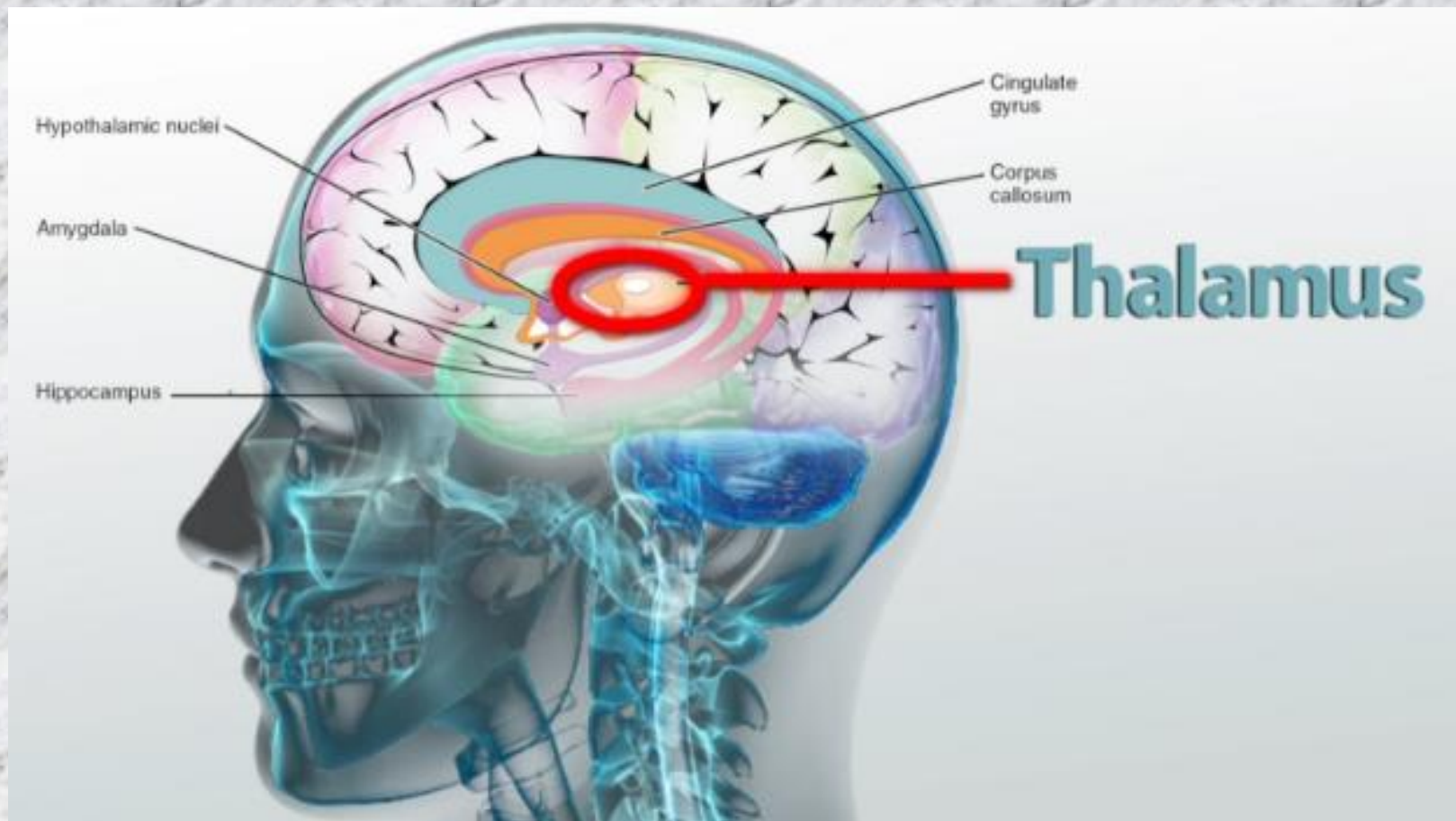


- **Autonomic nerve control (involuntary muscle action)**
- **Ex. Breathing, heart rate, blood vessel size**



# Limbic System

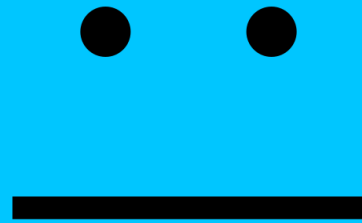
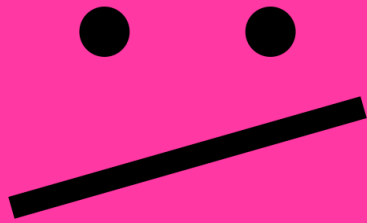




# Thalamus

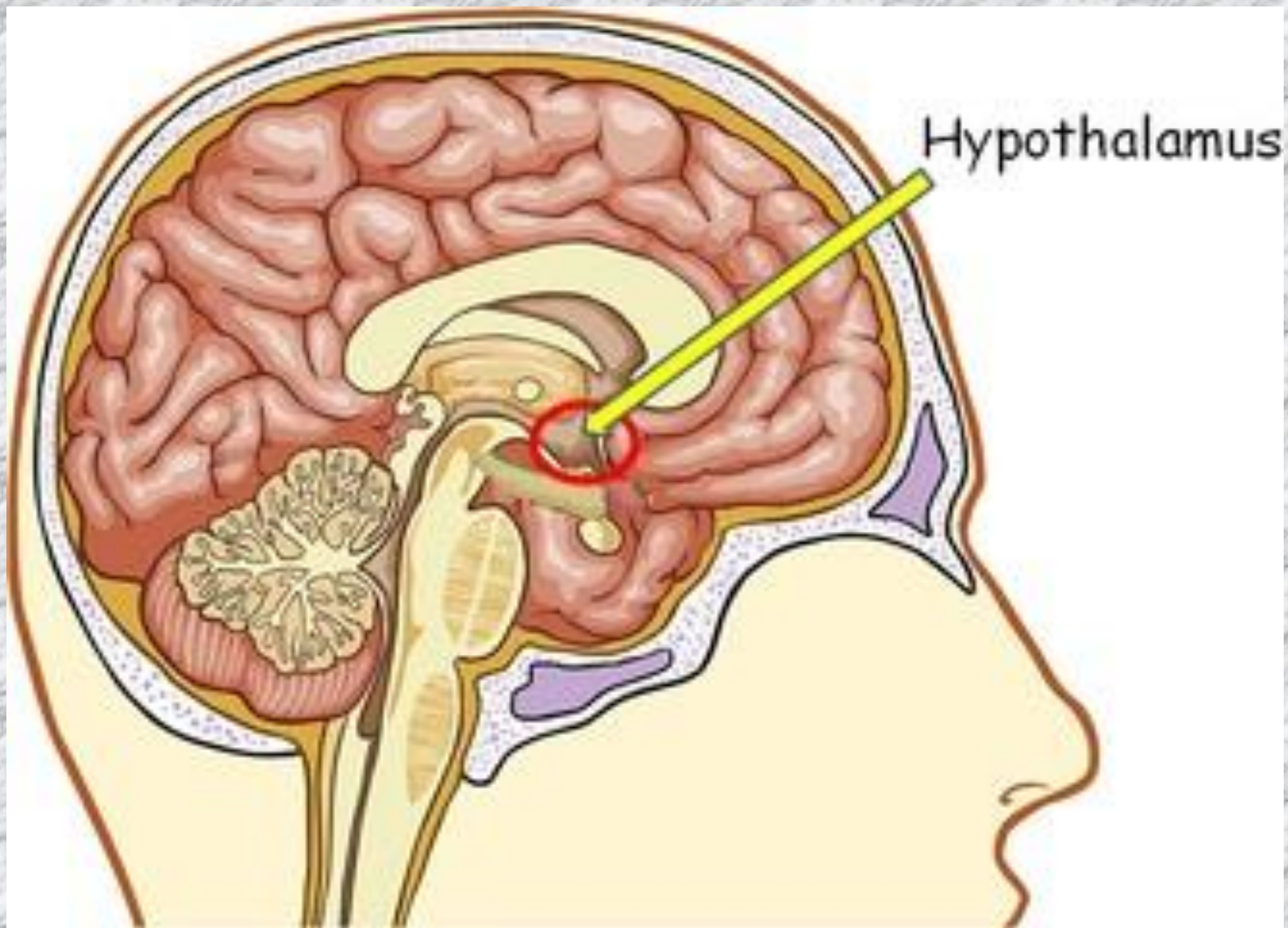
Monitors sensations that move in and out of the brain



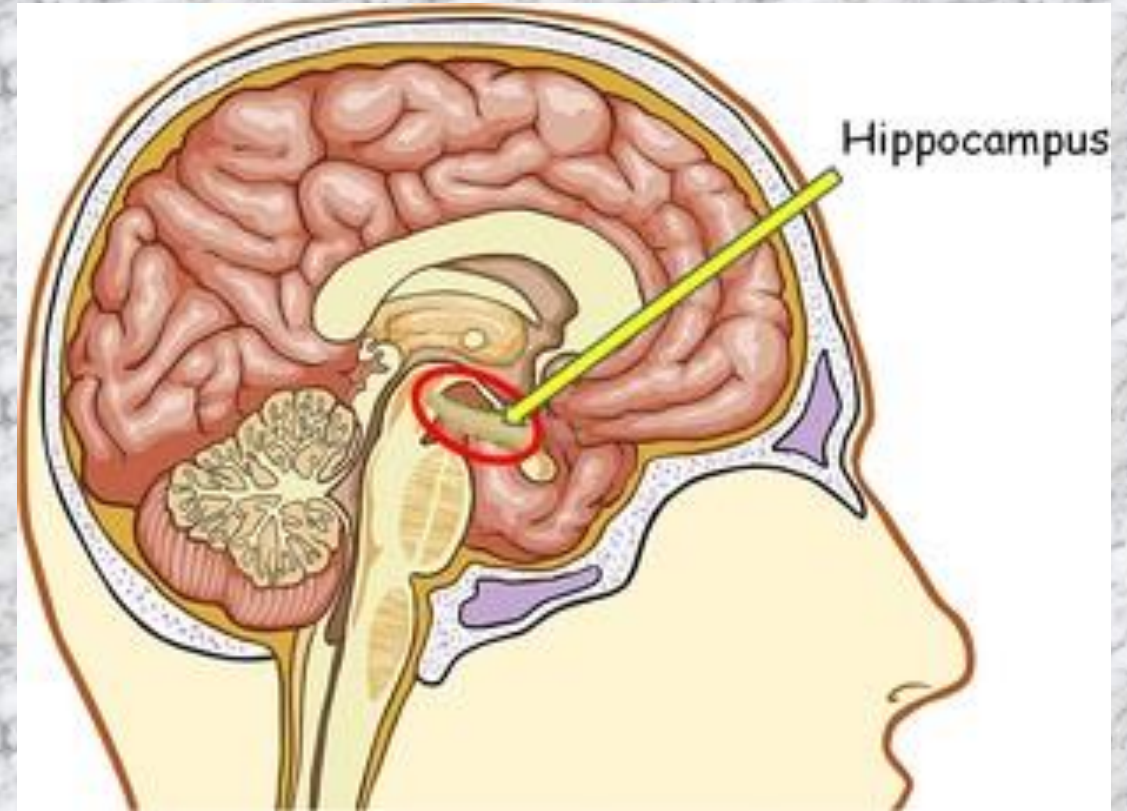
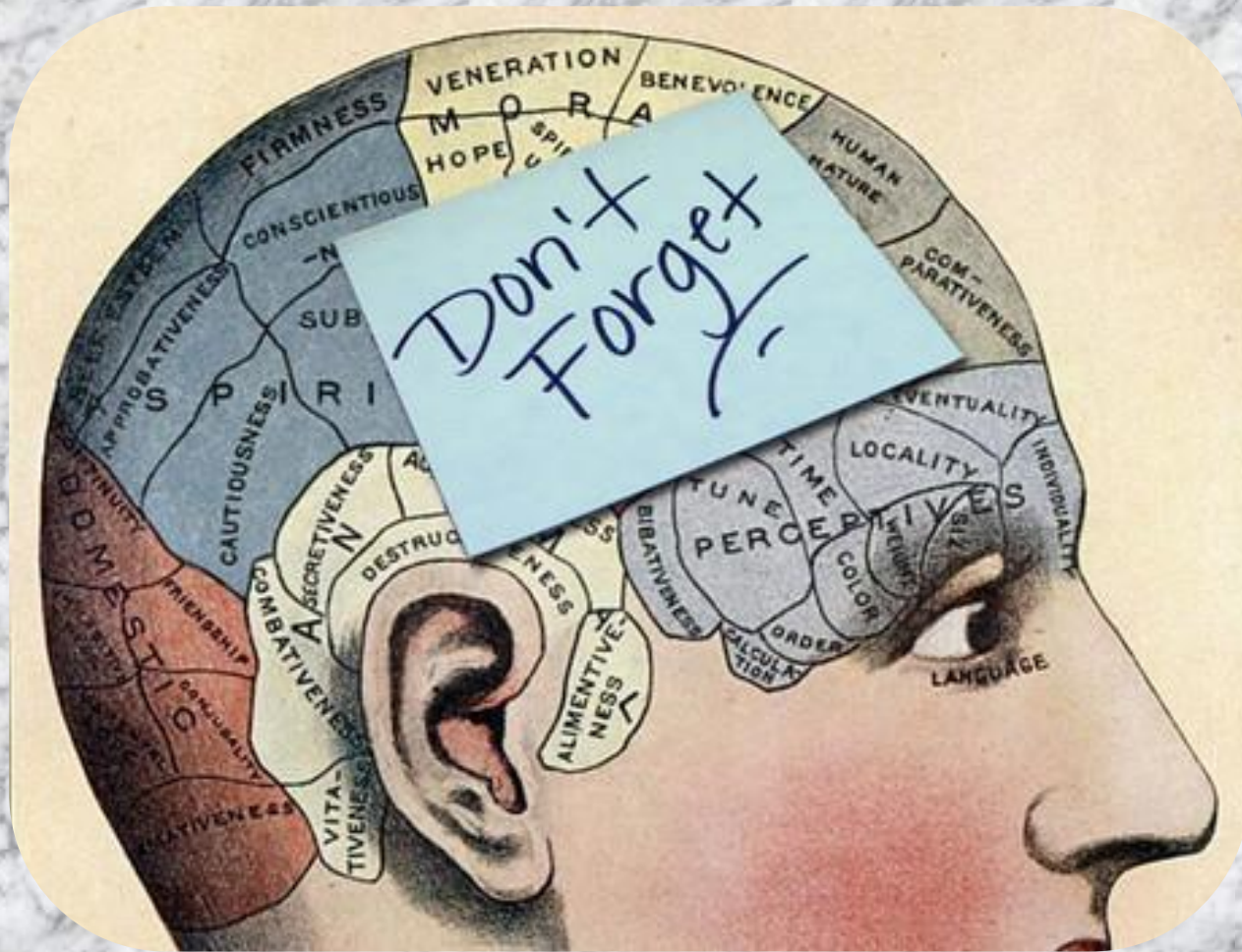


## **Hypothalamus**

Mood, hunger, regulating hormones,  
thermoregulation



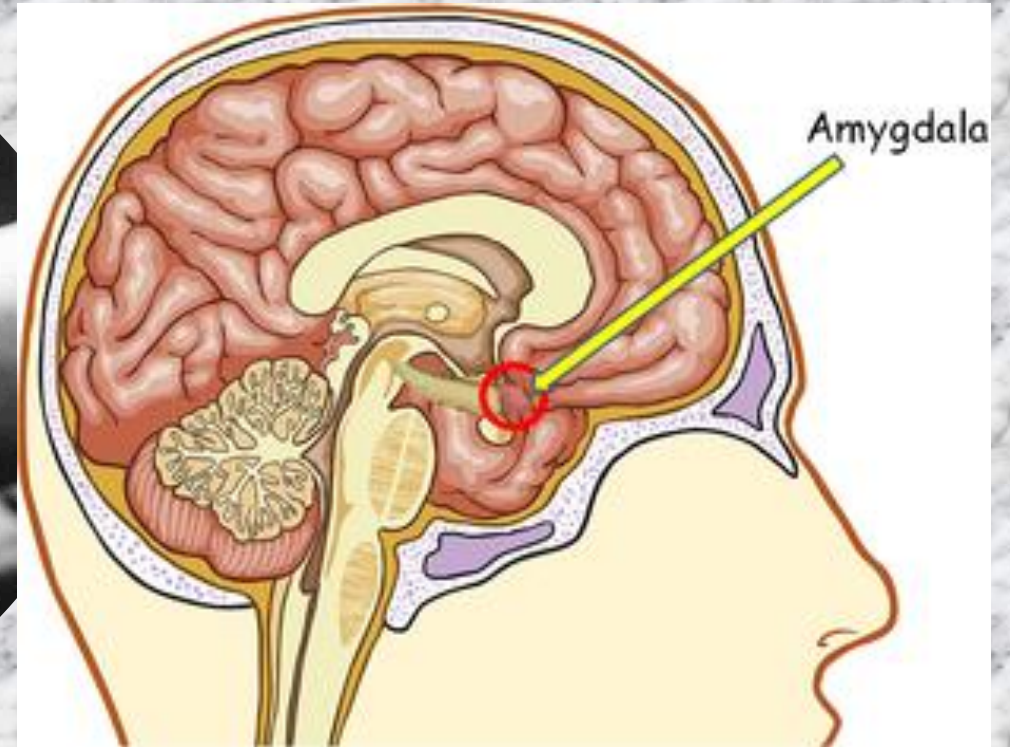




# Hippocampus

Memory formation and emotional responses





## **Amygdala**

Response and memory of memories, emotion and fear