

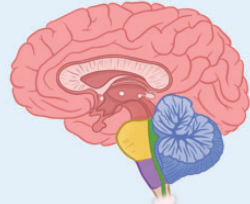


TOPIC: SUMMARY OF MAJOR BRAIN STRUCTURES

Major Organization		Structure	Definition/Function	Memory Tools
Forebrain		Cerebrum	“Complex” functions	
		Corpus Callosum	Connects hemispheres	
<div>Cortical Forebrain</div> 	Frontal Lobe	Primary Motor Cortex	Voluntary movements	Motor = movement
		Prefrontal Cortex	Complex cognitions	
		Broca’s Area	Speech production	Broca builds speech!
	Temporal Lobe	Primary Auditory Cortex	Audition (hearing)	Located near ears!
		Wernicke’s Area	Language comprehension	Wernicke’s tells you what you just heard
	Parietal Lobe	Primary Somatosensory Cortex	Touch and internal sensations	Somatosensory
	Occipital Lobe	Primary Visual Cortex	Vision	
<div>Subcortical Forebrain</div> 	Limbic System	Basal Ganglia	Regulates movement	Basal begins movement
		Thalamus	Sensory relay station, consciousness/sleep	The "sensory switchboard"
		Hypothalamus	Regulates homeostasis	Prevents hypothermia
		Amygdala	Emotion (i.e., fear)	Amy is emotional
		Hippocampus	Memory formation	I’d remember seeing a hippo on campus!
Midbrain			Movement/orientation	Mid = Movement
<div>Hindbrain</div> 		Pons	Sleep-wake cycle, bridges fore- and hindbrain	Pons means ‘bridge’ in Latin
		Medulla	Autonomic functions	Medusa stops your breathing
		Reticular Formation	Sleep-wake cycle, autonomic functions	“Helps” the pons and medulla
		Cerebellum	Coordination, balance, precise motor control	Cerebellum coordinates movement