

Brain Structure Foundations Flashcards

Q	A
What are the three major divisions of the brain?	Forebrain, midbrain, and hindbrain.
Which division is responsible for higher cognition and complex processing?	The forebrain.
Which division primarily handles basic life functions like breathing and heart rate?	The hindbrain.
Where is the midbrain located relative to the forebrain and hindbrain?	Between the forebrain and hindbrain, forming part of the brainstem.
Which division includes the cerebral cortex?	The forebrain.
Which division includes the brainstem?	The midbrain and hindbrain.
Which brain division is evolutionarily oldest?	The hindbrain.
Which division plays a major role in sensory relay and motor control?	The midbrain.
What is the brain primarily made of?	Mostly fat (lipids), followed by water, proteins, carbohydrates, and salts.

What is grey matter?	Regions containing neuron cell bodies (somas), dendrites, and unmyelinated axons.
What is white matter?	Bundles of myelinated axons responsible for communication between brain regions.
What are sulci?	Grooves or folds in the brain surface.
What are gyri?	Raised ridges between sulci on the brain surface.
Why does the brain have folds?	To increase surface area and allow more cortical neurons within limited skull space.