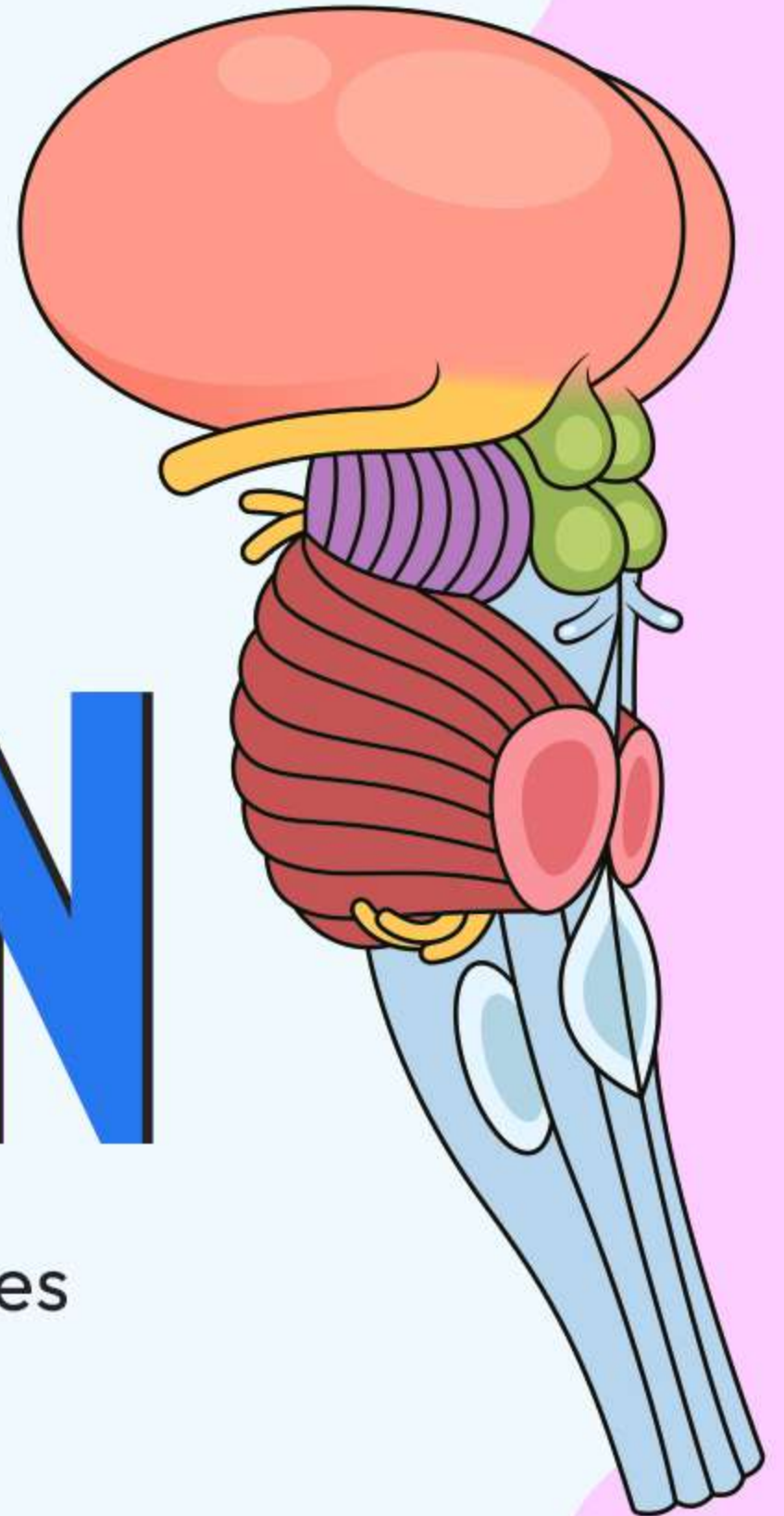


THE FIRST BLUEPRINT OF YOUR

BRAIN

How **three** embryonic vesicles
shaped the adult brain.



IT ALL STARTS WITH 3 PRIMARY BRAIN VESICLES

Around the 4th week of embryonic development, the neural tube forms three swellings:

- Prosencephalon (Forebrain)
- Mesencephalon (Midbrain)
- Rhombencephalon (Hindbrain)

These are the building blocks of the adult brain.



PROSENCEPHALON

The Thinking Brain

- Higher cognition
- Emotion & memory
- Homeostasis

TELENCEPHALON

- Cerebral cortex
- Basal Ganglia
- Limbic system
- Olfactory bulb



DIENCEPHALON

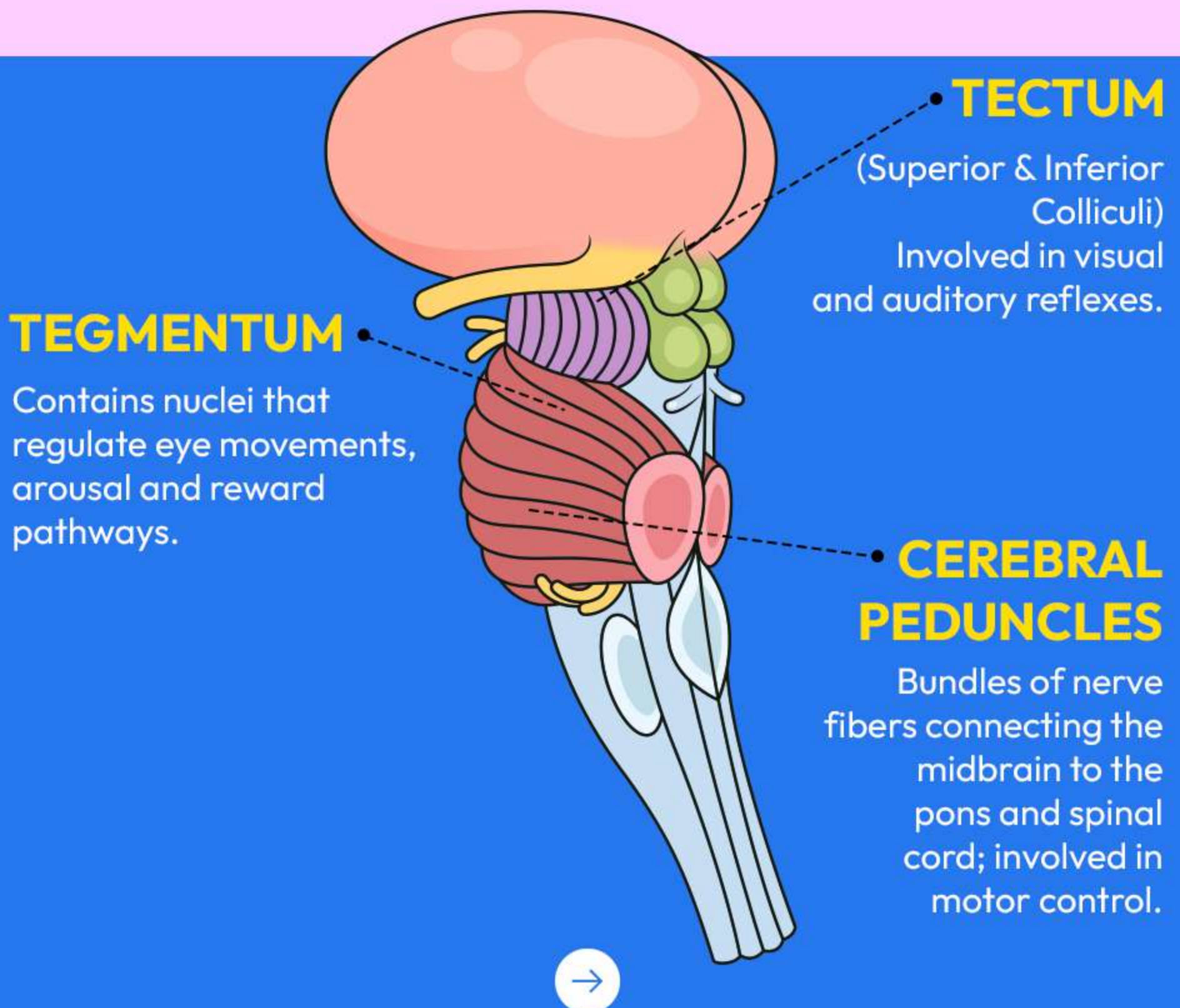
- Thalamus ■
- Hypothalamus ■
- Epithalamus ■
- Subthalamus ■



MESENCEPHALON

The Relay Centre

- Visual & auditory reflexes
- Motor control
- Alertness



RHOMBENCEPHALON

The Survival Centre

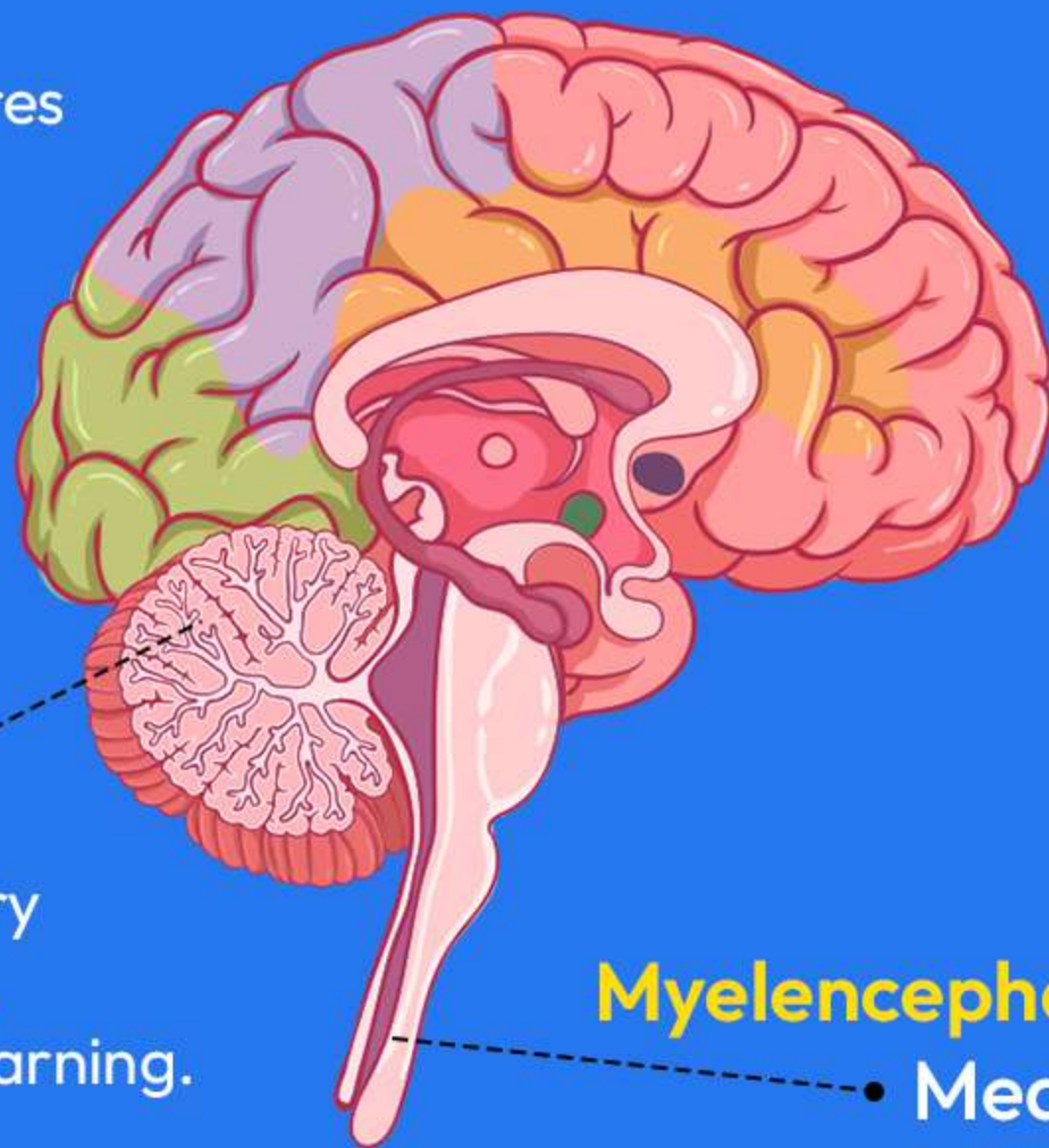
Metencephalon

Pons

A bridge of nerve fibres that relays signals between the cerebrum and cerebellum helps regulate sleep and respiration

Cerebellum

Coordinates voluntary movements, balance, posture and motor learning.



Myelencephalon

Medulla

Controls vital involuntary functions such as breathing, heart rate, blood pressure, swallowing and coughing.



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