

Nervous System

The nervous system coordinates sensory input, integration, and motor output.

Central Nervous System (CNS)

- **Brain:** Control center for thought, emotion, memory, and coordination.
- **Spinal Cord:** Conducts signals between the brain and the rest of the body; coordinates reflexes.

Peripheral Nervous System (PNS)

- **Cranial Nerves:** 12 pairs that emerge from the brain, serving head and neck areas.
- **Spinal Nerves:** 31 pairs that emerge from the spinal cord.
- **Ganglia:** Clusters of neuron cell bodies outside the CNS.
- **Peripheral Nerves:** Connect CNS to limbs and organs.

The **neuron** is a nerve cell that transmits impulses.

