

Cornell Guided Notes

Human Anatomy & Physiology (Human Body Systems) | 2026-10-12

Name

Period

Date

Lesson

Lesson focus

CNS, PNS, and brain regions

Key words and questions

Prepared details and student notes

Essential question
What is today's target?

Analyze how the CNS and PNS divide labor and connect regions to functions. Big idea: The nervous system is divided into the CNS (brain and spinal cord, integration) and PNS (all other nerves, transmission); understanding this division explains how and where neurological injuries create deficits.

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- neuron
- dendrite
- axon
- synapse
- neurotransmitter
- CNS
- PNS
- cerebrum

My notes, examples, and questions

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Cornell Notes - Continued

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Must-know ideas

What should I understand by the end?

- CNS: brain and spinal cord. Integrates sensory input and initiates motor output. Damage to CNS neurons is generally permanent because mature CNS neurons do not regenerate.
- PNS: all cranial and spinal nerves outside the CNS. Transmits signals to and from the CNS. PNS neurons can regenerate under some conditions.
- Neurological pathophysiology follows division lines: a stroke (CNS) causes permanent deficits on the opposite side of the body; a peripheral nerve injury may recover with time.

My notes, examples, and questions

Process notes

What happens during class?

- 0-8: Intro: CNS vs PNS division and clinical significance
- 8-25: Notes: CNS (brain + spinal cord) vs PNS (all other nerves); regeneration difference
- 25-45: PLTW online task: nervous-system organization
- 45-62: Sort five body actions into CNS-controlled vs PNS-relayed; justify each
- 62-75: Match three brain regions (from Wednesday map) to specific functions
- 75-80: Submit sorting and region-function matches; preview Friday packet

My notes, examples, and questions

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Steps and evidence What do I do and turn in?

- Read the notes on the central and peripheral nervous systems.
- Sort five body actions into CNS-controlled and PNS-relayed pathways.
- Complete the PLTW online task on nervous-system organization.
- Match three brain regions to the functions they control.
- Submit your CNS/PNS sorting and region-function matches.

Evidence: Notebook check - CNS/PNS sorting table (five body actions classified with justification) plus three brain-region-to-function matches referenced from the Wednesday map.

My notes, examples, and questions

Checks for understanding How do I know I got it?

- You can distinguish CNS and PNS roles.
- You can match brain regions to their functions.

My notes, examples, and questions

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Lab or safety notes
What must I handle carefully?

Supplies:

- Preserved sheep brain or detailed brain model
- Dissection tray and tools or virtual brain platform
- Neuron and brain diagrams
- Nitrile gloves
- Safety goggles
- Lab notebook

My notes, examples, and questions

Summary

Today's lesson focused on CNS, PNS, and brain regions. The main target was: Analyze how the CNS and PNS divide labor and connect regions to functions. The evidence of learning is Notebook check: CNS/PNS sorting table (five body actions classified with justification) plus three brain-region-to-function matches referenced from the Wednesday map.. In my own words, the most important idea from today is:

My summary

My final question or connection