Cornell Guided Notes

Human Anatomy & Physiology (Human Body Systems) | 2027-03-09

Name	Period	Date	Lesson
		2027-03-09	

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