

Worksheet For Nervous System

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Part 1: Building a Foundation
Which part of the nervous system is responsible for processing and sending out information?
Hint: Think about the main divisions of the nervous system.
A) Peripheral Nervous System
○ B) Central Nervous System
C) Autonomic Nervous System
O) Somatic Nervous System
Which of the following are types of neurons? (Select all that apply)
Hint: Consider the different roles neurons play in the nervous system.
A) Sensory neurons
B) Motor neurons
C) Interneurons
D) Neuroglia
Describe the function of neurotransmitters in the nervous system.
Hint: Think about how neurotransmitters facilitate communication between neurons.

List the major parts of the brain and provide a brief function for each.



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Hint: Consider the main regions of the brain and their roles.
1. CEREBRUM
2. CEREBELUM
3. BRAINS STEM
Part 2: Understanding and Interpretation
What is the primary role of the autonomic nervous system?
Hint: Consider the functions that occur without conscious control.
A) Control voluntary movements
A) Control voluntary movementsB) Process sensory information
B) Process sensory informationC) Regulate involuntary body functions
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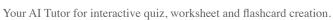
Explain how the sympathetic and parasympathetic systems differ in their effects on the body.

Hint: Consider the fight or flight response versus rest and digest.



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Part 3: Application and Analysis
If a person touches a hot surface, which type of neuron is first activated to initiate a reflex action?
Hint: Think about the pathway of a reflex arc.
A) Motor neuron
O B) Sensory neuron
C) Interneuron
O) Efferent neuron
In a scenario where a person is preparing for a public speech, which parts of the nervous system are
likely to be activated? (Select all that apply)
Hint: Consider the systems that prepare the body for action.
A) Sympathetic nervous system
B) Parasympathetic nervous system
C) Central nervous system
D) Peripheral nervous system
Describe how the brain processes visual information when reading a book.
Hint: Think about the steps involved in visual perception and comprehension.





Which lobe of the brain is primarily responsible for processing visual information?
Hint: Consider the different lobes of the brain and their functions.
○ A) Frontal lobe
O B) Parietal lobe
○ C) Temporal lobe
O) Occipital lobe
Analyze the relationship between the central and peripheral nervous systems. Which statements are true? (Select all that apply)
Hint: Consider how these two systems interact.
A) The CNS sends commands to the PNS.
B) The PNS processes information independently of the CNS.
C) The PNS transmits sensory information to the CNS.
D) The CNS and PNS operate in isolation from each other.
Discuss the role of interneurons in reflex actions and how they contribute to the speed of response.
Hint: Think about the pathway of reflexes and the role of different neurons.
Part 4: Evaluation and Creation
Evaluate the impact of a neurotransmitter imbalance on human behavior. Which neurotransmitter is most commonly associated with depression?
Hint: Consider the neurotransmitters that influence mood.
○ A) Dopamine
○ B) Serotonin
○ C) Acetylcholine



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○ D) GABA
Create a plan to improve cognitive function in older adults. Which strategies are likely to be effective? (Select all that apply)
Hint: Think about activities that stimulate the brain.
 A) Regular physical exercise B) Cognitive training exercises C) Increased social interaction D) High-sugar diet
Propose a hypothetical experiment to study the effects of a new drug on neurotransmitter activity in the brain. Describe the methodology and expected outcomes.
Hint: Consider how you would design an experiment to test drug effects.