

Amoeba Sisters Video Recap: Nervous System

The video mentions multiple divisions of the nervous system as shown in the flow chart below.	
1. CNS stands for	Nervous System
It includes the brain and	
2. DNC stands for	CNS
2. PNS stands for It includes:	
	ANS
3. How do the CNS and PNS work together?	(autonomic) (somatic) Sympathetic Parasympathetic
If focusing on the brain (part of the CNS), please complete the following. Remember that these are general areas; more detail could be explored about all of these regions!	
For	5. The forebrain includes the
Forebrain	cerebrum. What are some functions of
	the cerebrum?
4. What are some functions of the midbrain?	6. The forebrain also includes the thalamus and hypothalamus . What are some functions of these structures? 7. The hindbrain includes the medulla ,
4. What are some functions of the	, and cerebellum.
midbrain?	
8. What are some functions of the structures listed above?	
9. The term brainstem includes the midbrain plus which tw and	





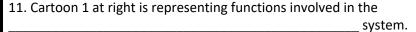
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10. The PNS can be divided into the **autonomic nervous system (ANS)** and **somatic nervous system (SNS)**. How do these cartoons at right illustrate some differences between their functions?





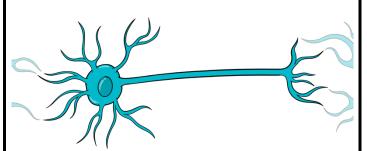
The ANS can be further divided. You can look at the very first question again to see the division flow chart!



12. Cartoon 2 at right is representing functions involved in the system.



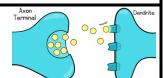
13. For this image featuring a **neuron**, please label the: **axon**, **axon terminals**, **cell body**, **dendrites**, and **synapse**.



14. Many neurons can be **myelinated**. What does that mean and what is its significance?

- 15. Neurons can receive a signal in the _____ and carry it down the
- 16. The **action potential** allows neurons to carry a signal quickly. In 2-4 sentences, briefly summarize what occurs in an action potential.

17. When an action potential reaches the end of the axon, it can signal **synaptic vesicles** to release ______, which can travel the between neurons and signal an action potential in the neighboring neuron.



18. Neurons aren't the only cells heavily involved in the nervous system! **Glial cells** (or **glia**) have many important roles in the nervous system. What are at least 3 functions of glia?

