

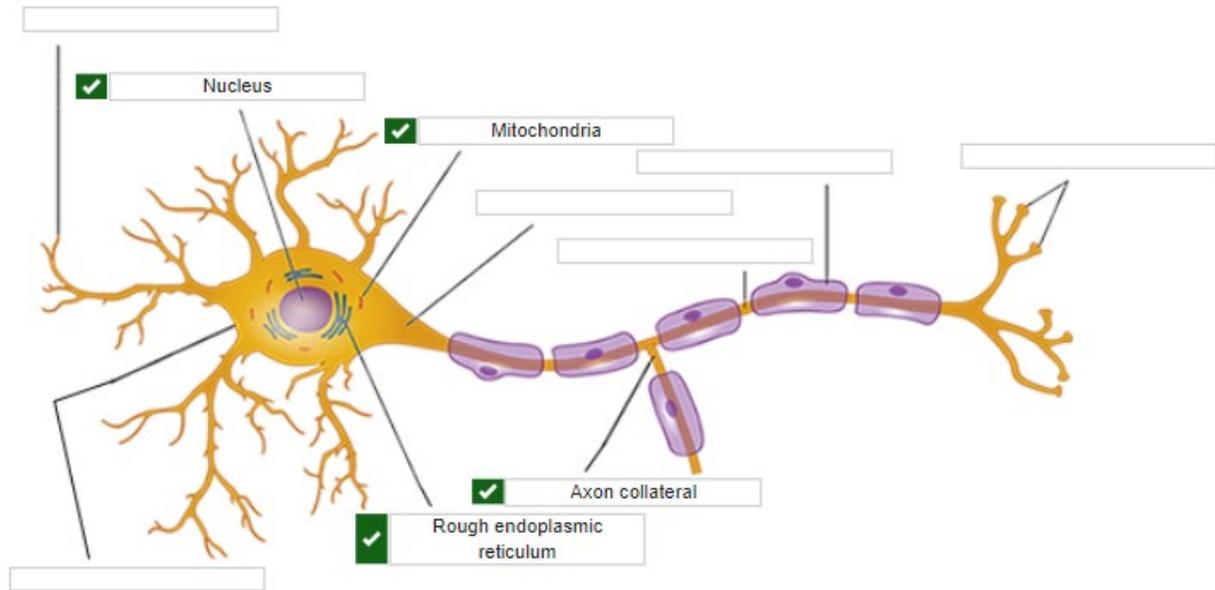
Nervous System Overview

Read Chapter 15.1-15.2

Fill in the blanks

1. The nervous system is divided into the _____ nervous system and the _____ nervous system.
2. The cranial nerves are part of the _____ nervous system.
3. There are _____ pairs of cranial nerves and _____ pairs of spinal nerves.
4. Match the term with the correct definition. Nerve, tract, plexus, ganglion, nucleus, neuron, glia
 - a. A bundle of neurons in the CNS _____
 - b. A bundle of neurons in the PNS _____
 - c. A network of nerves _____
 - d. Cells that support the neurons _____
 - e. The cell type that transmits signals _____
 - f. A group of cell bodies in the CNS _____
 - g. A group of cell bodies in the PNS _____
5. The _____ component of the nervous system can be voluntarily controlled.
6. The _____ component of the nervous system is involuntary.
7. The _____ component of the nervous system controls digestion.
8. The ANS is divided into 2 components:
 - a. The _____ response is the fight-or-flight response.
 - b. The _____ response is the rest-and-digest response.
9. Neurons that bring information to the CNS are called (afferent/ efferent) _____.
10. Neurons that send information to the body from the CNS are called (afferent/ efferent) _____.
11. Sensory neurons are (afferent/ efferent) _____.
12. Motor neurons are (afferent/ efferent) _____.
13. Target tissues (effectors) in the somatic system are _____.
14. Target tissues (effectors) in the ANS are:
 - a. _____
 - b. _____
 - c. _____

15. There are (1 or 2) _____ efferent neurons in the pathway of the ANS.
16. For each of the following stimuli, state the type of receptor that would detect it:
- Pain _____
 - Temperature _____
 - Ions _____
 - Neurotransmitter _____
17. A motor neuron is a _____ neuron.
18. You would find _____ neurons in your retina.
19. Label the structures of a typical neuron:



20. Match the function with the correct glial cell:
- Stores glycogen _____
 - Makes myelin in the CNS _____
 - Makes myelin in the PNS _____
 - Type of phagocytic immune cell _____
 - Forms blood-brain barrier _____
 - Makes cerebral spinal fluid _____
 - Regulates ions concentration around neurons in the PNS _____