

NAME _____

Period _____

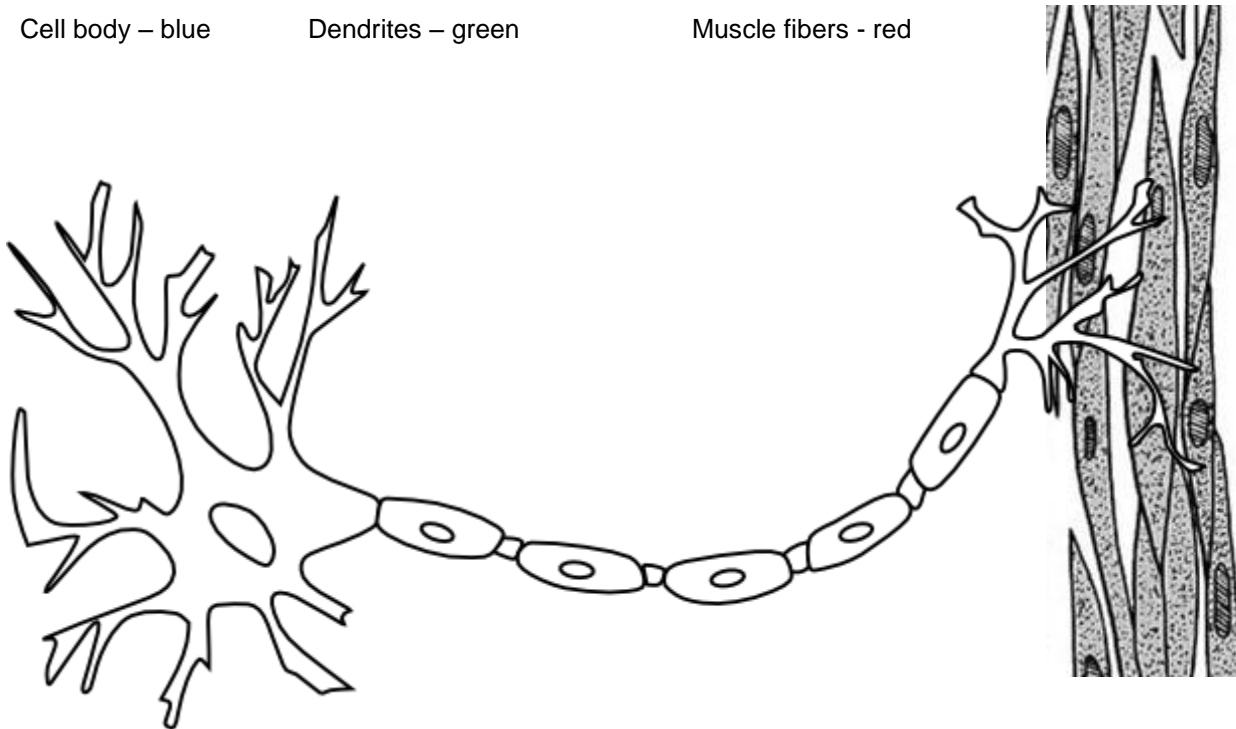
NERVOUS SYSTEM WORKSHEET

1. The diagram below is of a nerve cell or neuron. Add the following labels to the diagram:

Axon Myelin sheath Cell body Dendrites Muscle fibers Axon terminals

2. Color in the diagram as suggested below.

Axon - purple Axon Terminals – orange Myelin sheath – yellow
 Cell body – blue Dendrites – green Muscle fibers - red



3. There are three different kinds of neurons or nerve cells. Match each kind with its function.

A. Motor neuron B. Sensory neuron C. Relay neuron;

Kind of neuron	Function
.....	The nerve cell that carries impulses from a sense receptor to the brain or spinal cord.
.....	The nerve cell that connects sensory and motor neurons
.....	The nerve cell that transmits impulses from the brain or spinal cord to a muscle or gland

3. Match the descriptions in the table below with the terms in the list.

- A. Synapse B. Axon C. Myelin sheath D. Nerve impulse E. Sense receptor F. Response;
G. Reflex H. Cell body I. Dendrite J. Nerve K. Neurotransmitter L. Axon terminal**

Term	Description
.....	1. The long fiber that carries the nerve impulses.
.....	2. A bundle of axons.
.....	3. The connection between adjacent neurons.
.....	4. The chemical secreted into the gap between neurons at a synapse.
.....	5. A rapid automatic response to a stimulus.
.....	6. The covering of fatty material that speeds up the passage of nerve impulses.
.....	7. The structure at the end of an axon that produces neurotransmitters to transmit the nerve impulse across the synapse.
.....	8. The high speed signals that pass along the axons of nerve cells.
.....	9. The branching filaments that conduct nerve impulses towards the cell.
.....	10. The sense organ or cells that receive stimuli from within and outside the body.
.....	11. The reaction to a stimulus by a muscle or gland.
.....	12. The part of the nerve cell containing the nucleus.

4. Indicate whether the following parts of the nervous system are part of the Central Nervous System (CNS) or the Peripheral Nervous System (PNS).

Part of nervous system

Brain
Autonomic nervous system
Spinal nerves
Spinal cord
Cranial nerves

5. Label and color the 3 major parts of the brain.

- Cerebrum – Red Cerebellum – Blue
Brain Stem - Yellow

CNS or PNS?

