

NAME _____

Period _____

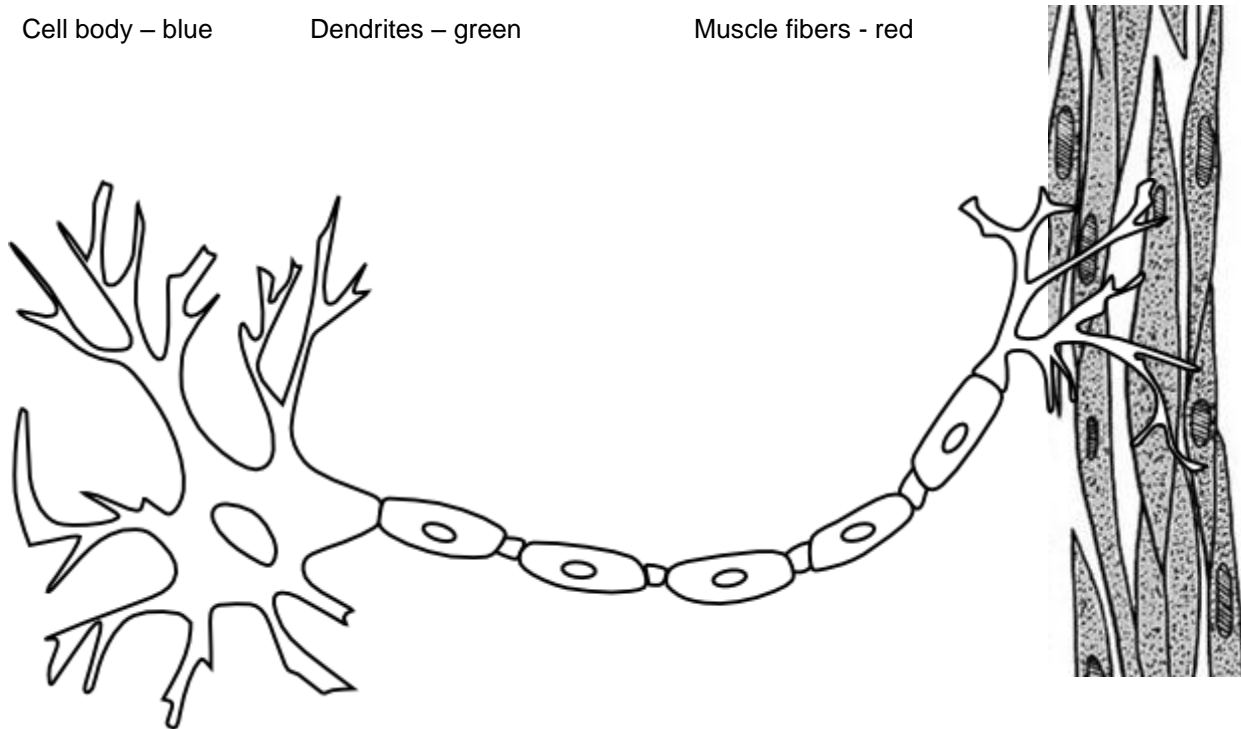
NERVOUS SYSTEM WORKSHEET

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?

