



# DEVELOPING AN INQUIRY QUESTION ABOUT THE NERVOUS SYSTEM:

- A good question requires you to think. (Not just recall information you already know).
- A good question comes from something you are curious about and want to learn more about.
- A good question makes you think about something in a new way.
- A good question requires support discovered through research.
- A good question has a focus and is reasonable





# ESSENTIAL QUESTION: HOW DO NERVE CELLS COMMUNICATE?

V.O.D <https://www.youtube.com/watch?v=dSkxlpNs3tU>

What do you notice?



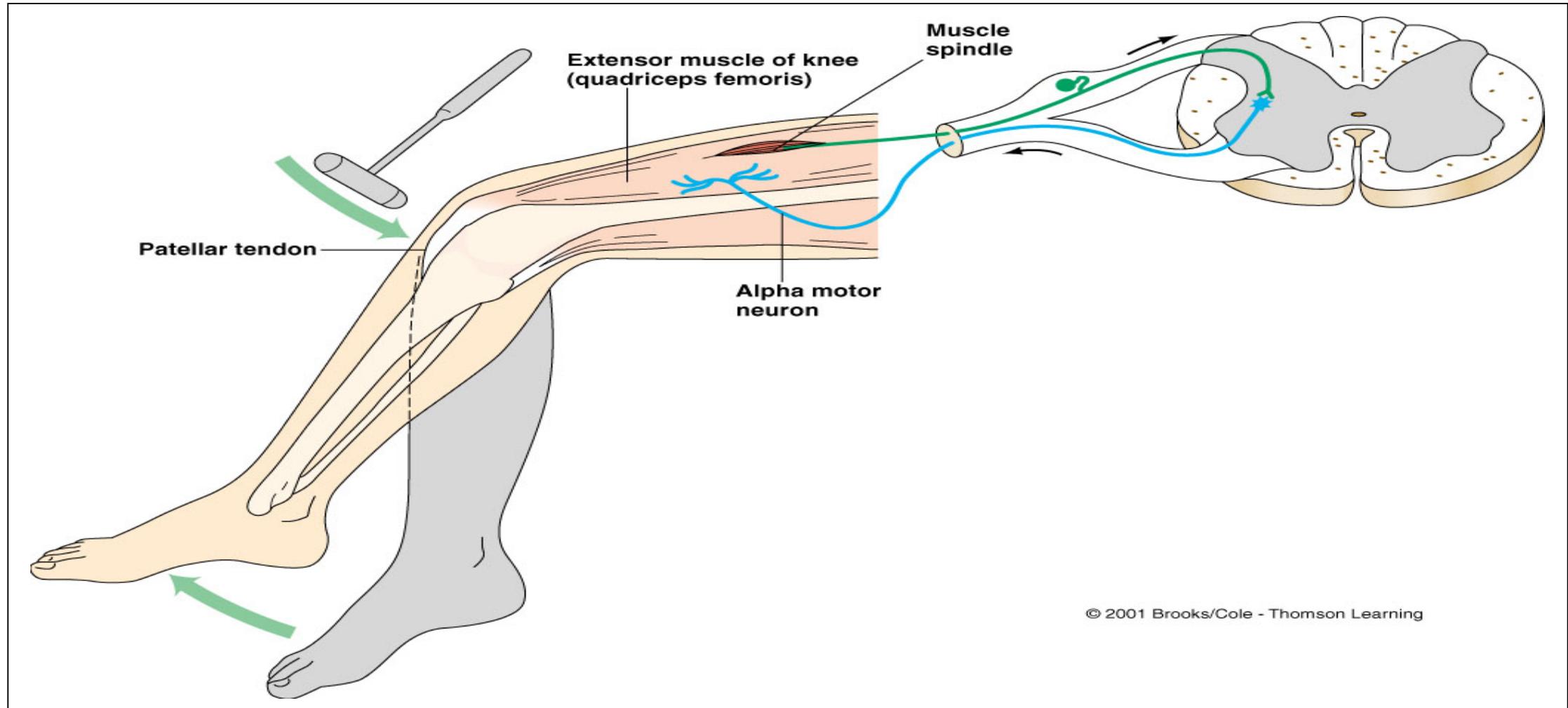


# LEARNING INTENTIONS

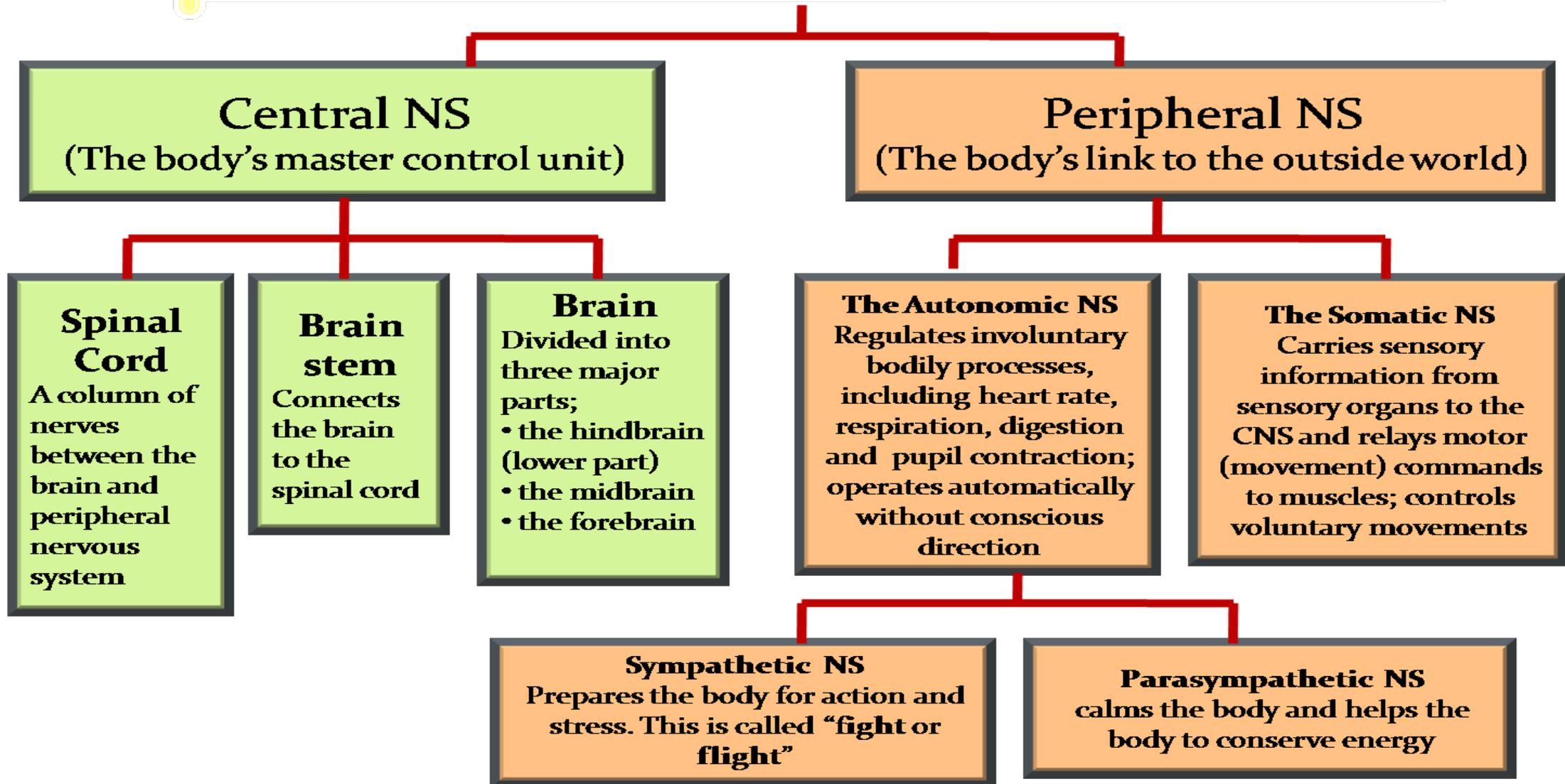
- I can explain the 2 major divisions of the nervous system including the central nervous system and peripheral nervous system
- I can explain the anatomy of a neuron including cell body, dendrite, and axon.
- I can identify the 3 classes of neurons including sensory, interneurons, and motor neurons
- I can explain the role of myelin



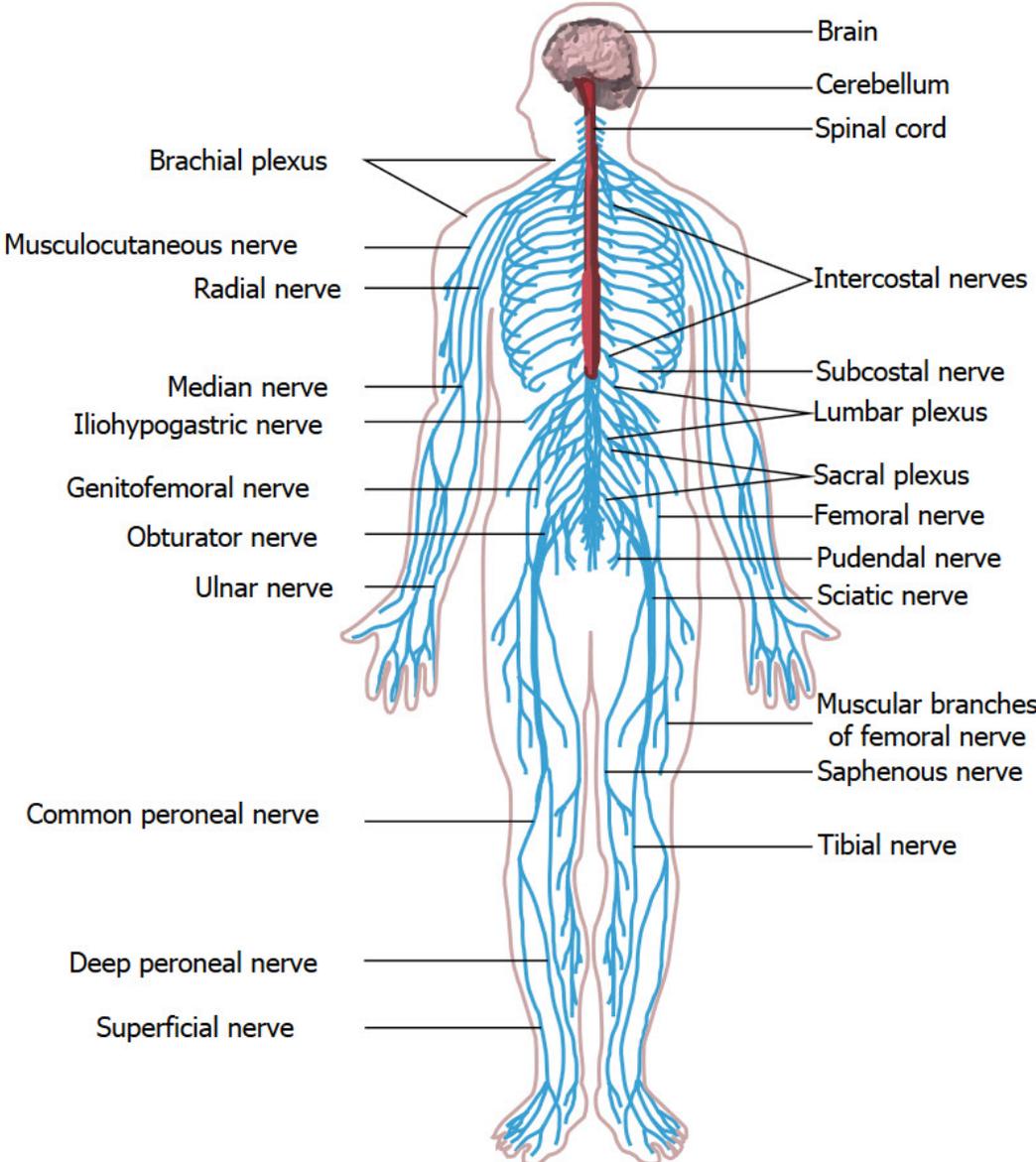
# HOW DO REFLEXES WORK?



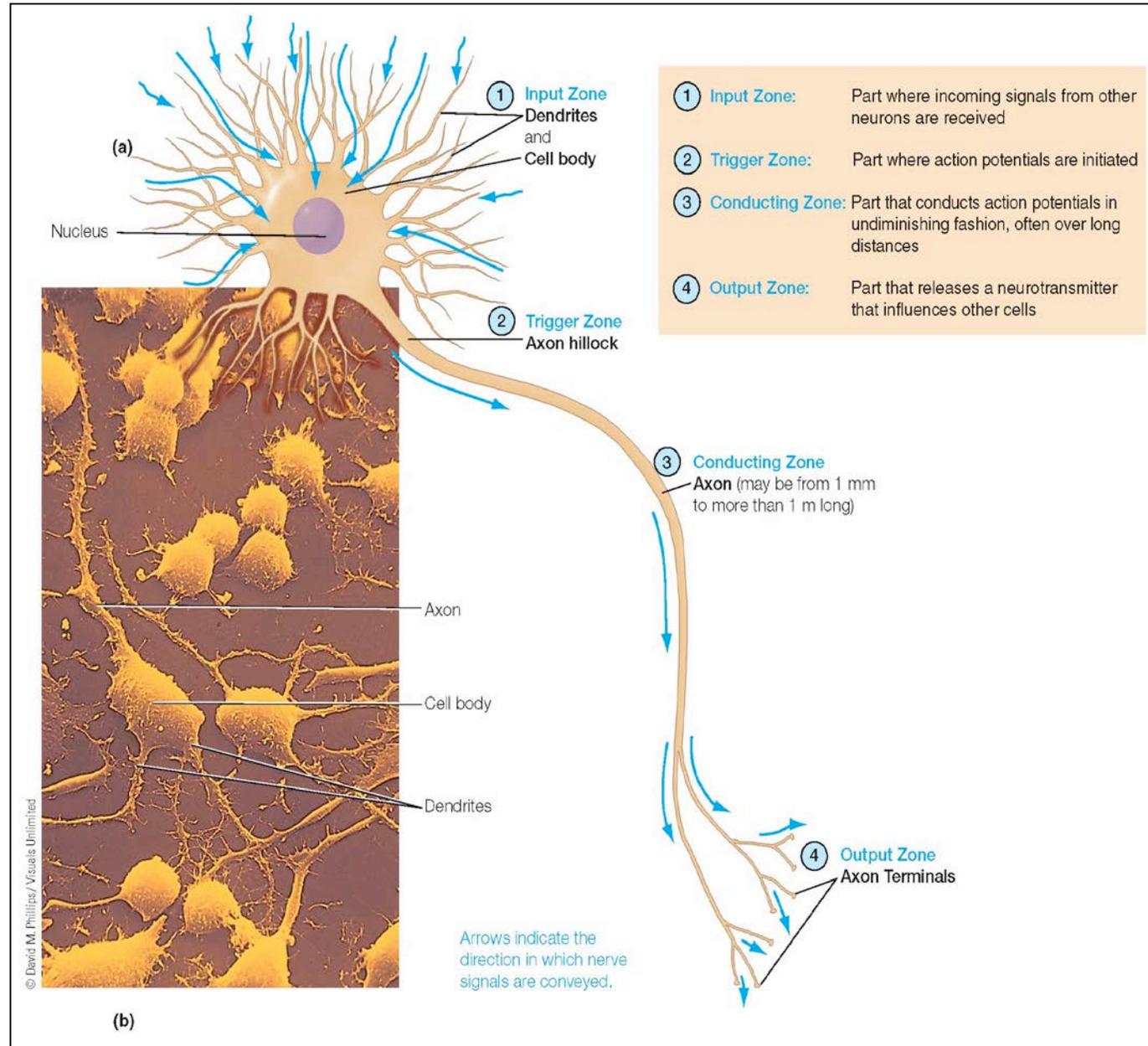
# The Nervous System



# NERVOUS SYSTEM

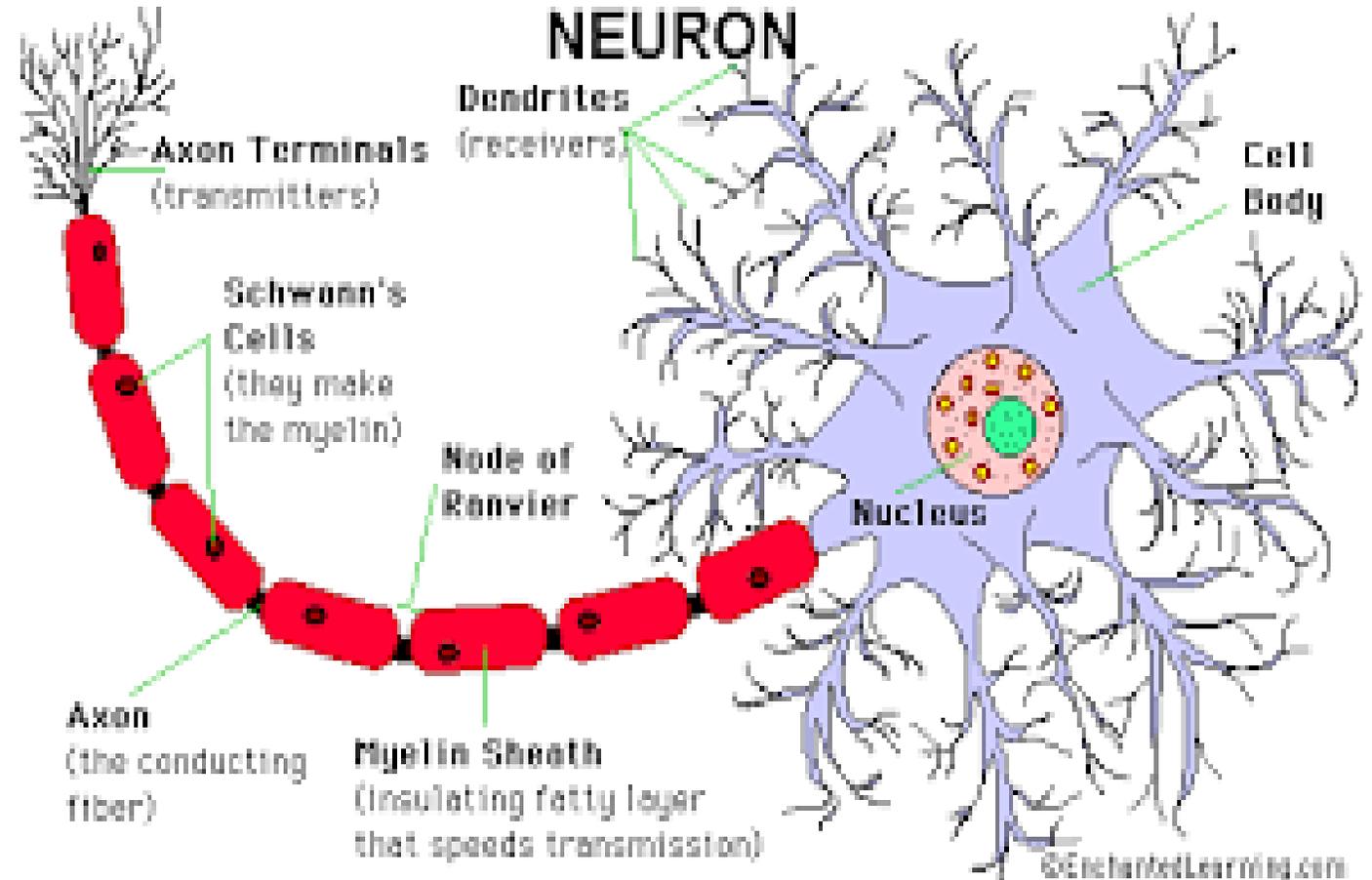


# ANATOMY OF THE NEURON

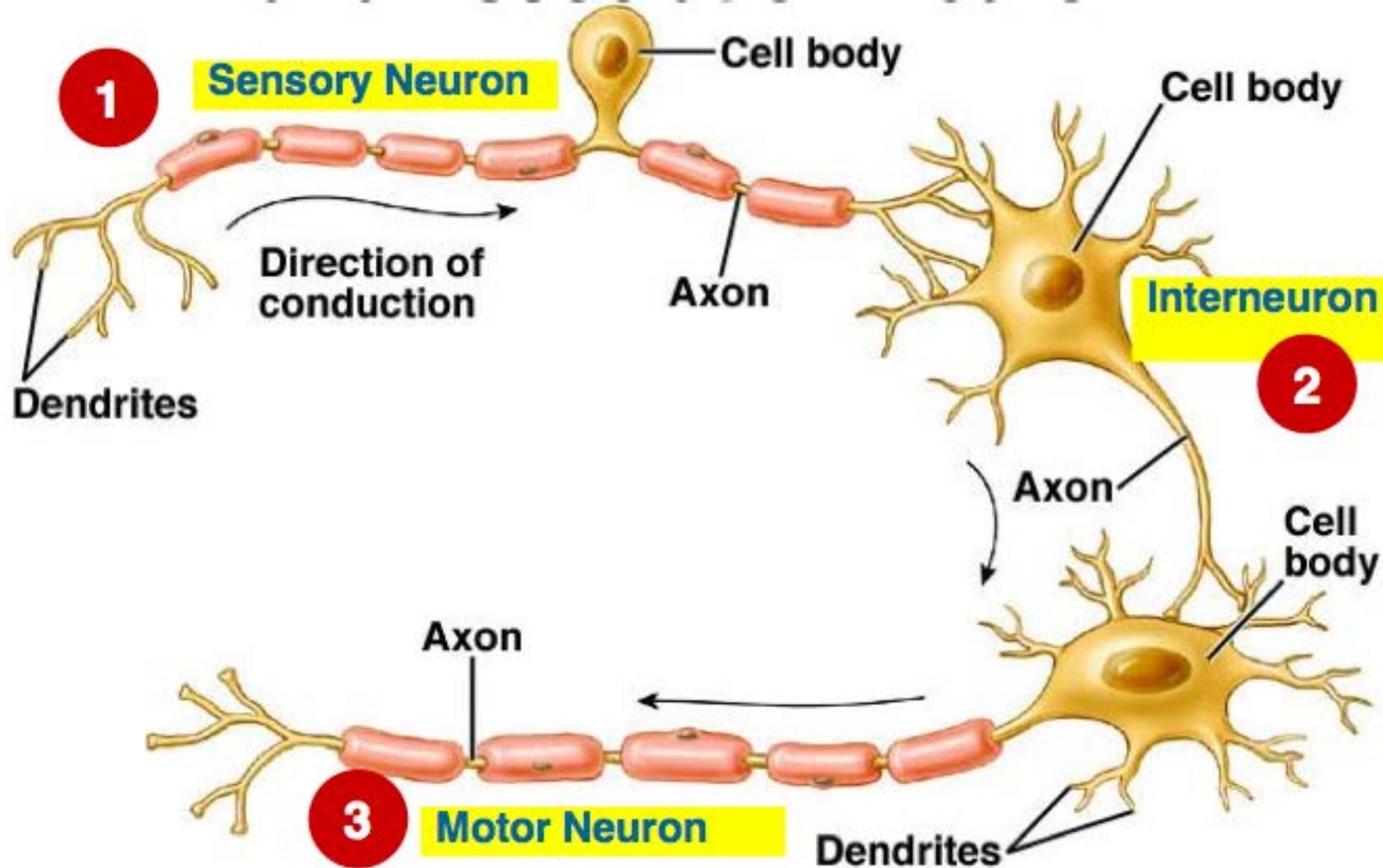


# ANATOMY OF NEURON

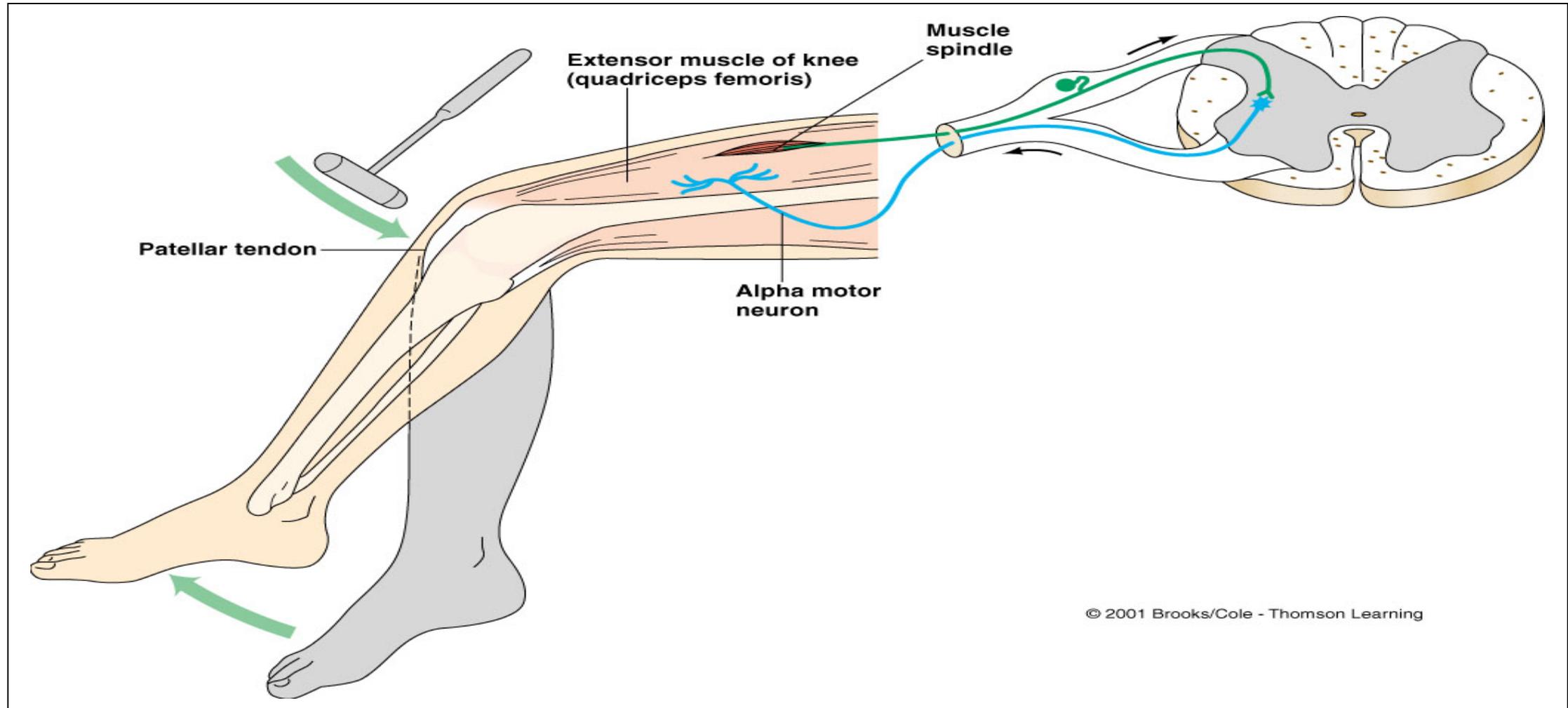
- **Cell body** – contains the nucleus and the other organelles
- **Dendrites** – are the many extensions from the cell body that receives signals from other neurons
- **Axon** – conduct nerve impulses away from the cell body



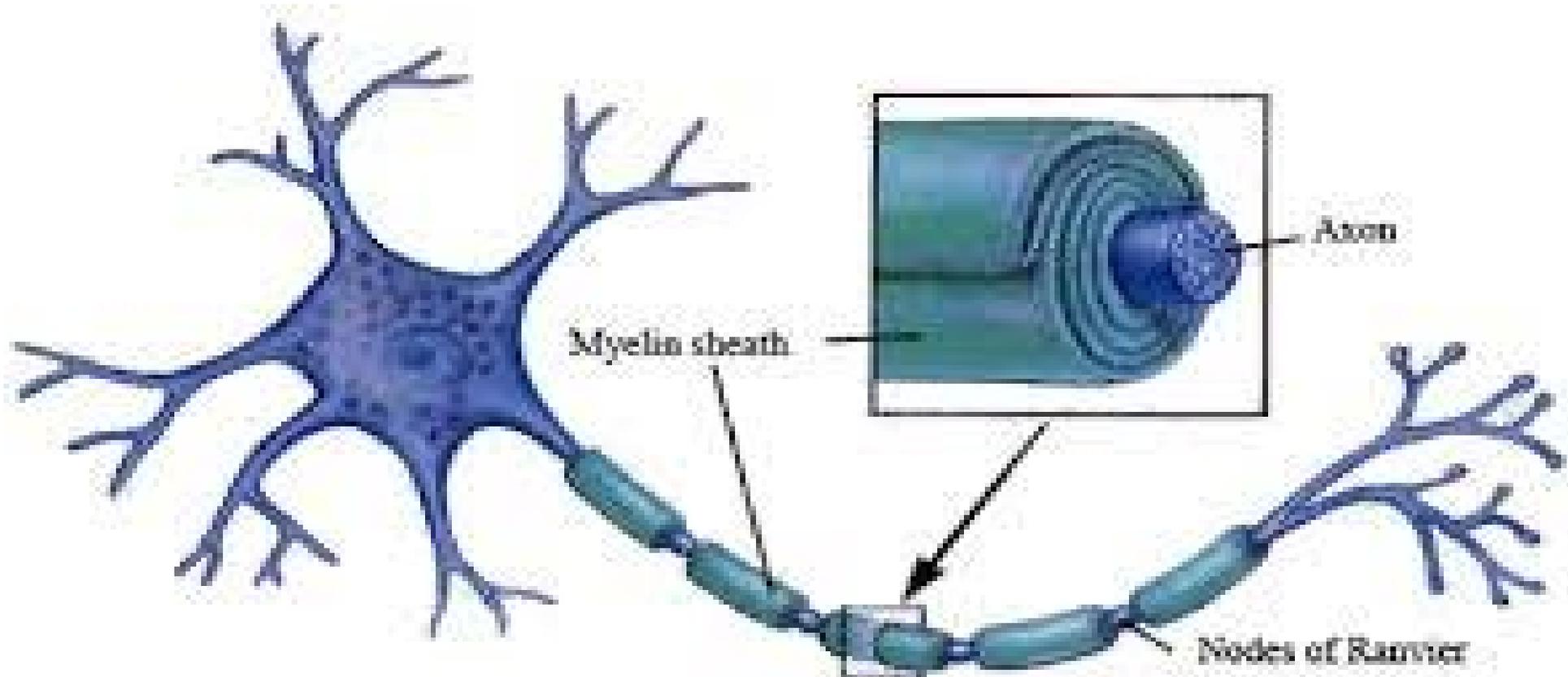
# Three Types of Neurons



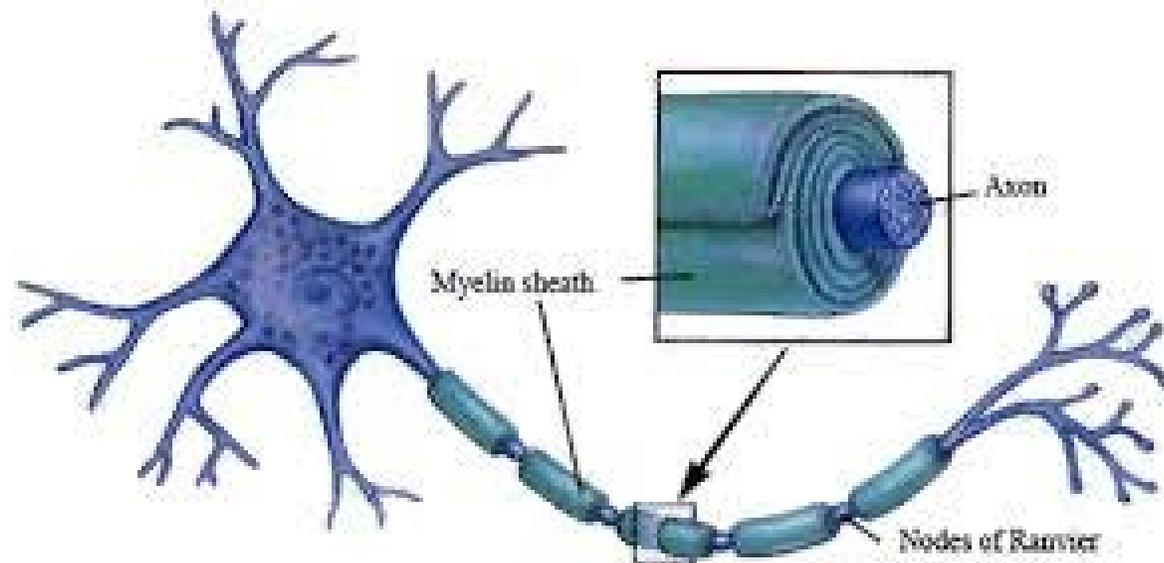
# HOW DO REFLEXES WORK?



# MYELIN SHEATH: ALLOWS THE SIGNAL TO TRAVEL ALONG THE AXON FASTER



# MYELIN SHEATH



- In the PNS, **myelin** sheath is formed by **Schwann cells**, which contain the lipid substance myelin in their plasma membranes.
- Myelin sheath is interrupted by **Nodes of Ranvier**



# TAKE AWAY TASK

- Complete Neuron Anatomy Worksheet

