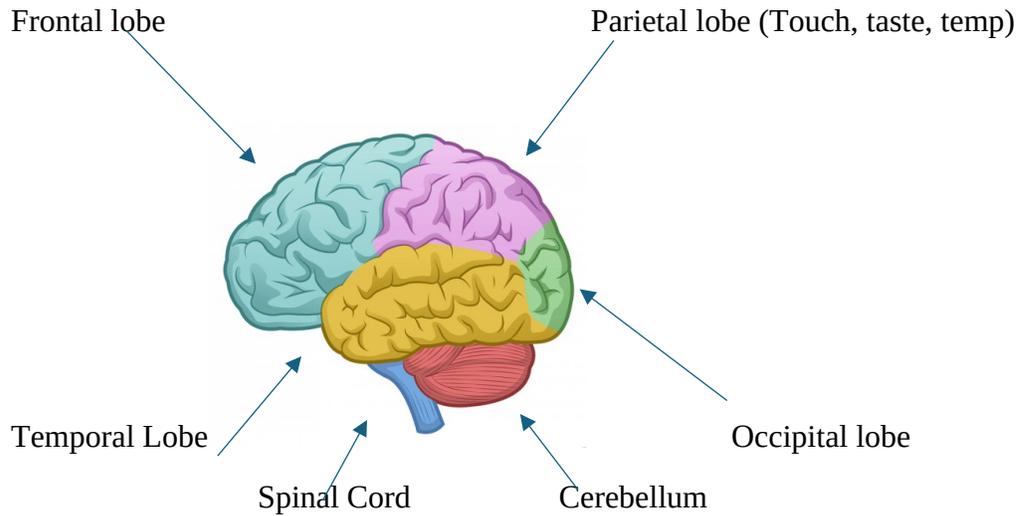


Neurosensory Unit Part 1: A&P

Class Preparation

A. Label the parts of the brain and identify the function of each part.



Frontal: executive function, motor control, emotional regulation

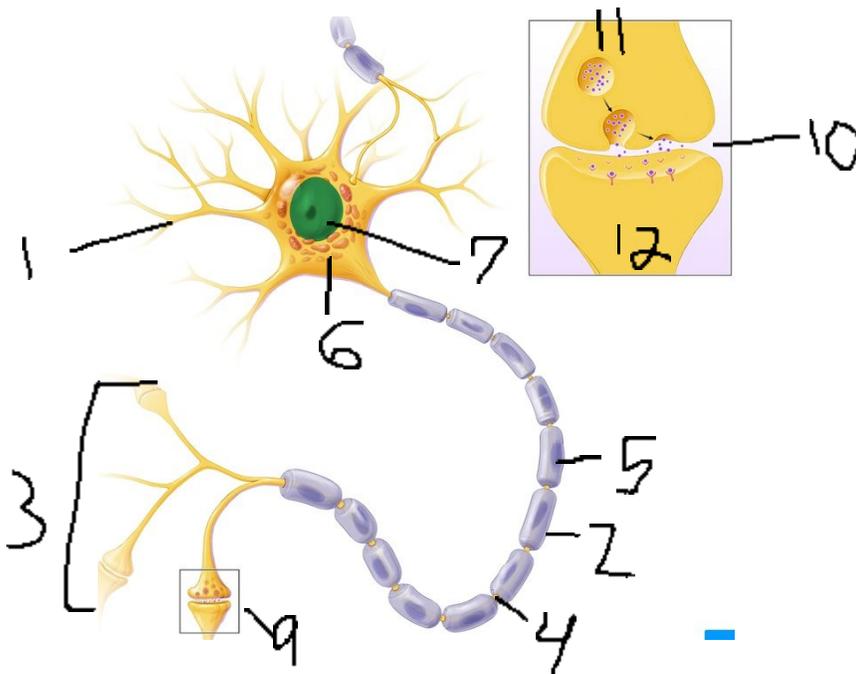
Parietal: touch, taste, temperature

Occipital: vision

Temporal: hearing, memory, language

Cerebellum: balance, coordination

B. Label the parts of the neuron:



1. Dendrites ✓
2. Myelin sheath ✓
3. Axon terminal ✓
4. Node of Ranvier ✓
5. Schwann's cells ✓
6. Cell body ✓
7. Nucleus ✓
8. Axon terminals ✓
9. Synapse ✓
10. Chemical Signals (neurotransmitters) ✓
11. pre-synaptic ("sending") cell ✓
12. post-synaptic ("receiving") cell ✓

C. Describe nerve impulse conduction, including action potential and neurotransmitters.

The process where electrical signals travel the entire length of a neuron to communicate between different parts of nervous system. Action potentials are rapid changes in the electrical charge across a neuron's membrane. Neurotransmitters are chemical messengers that diffuse across the synaptic cleft and bind to specific receptors on the membrane of the next neuron.