Cogs 17: Section

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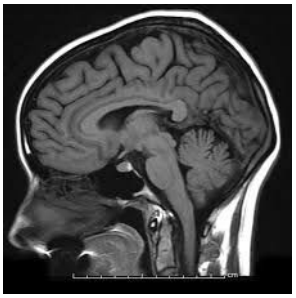
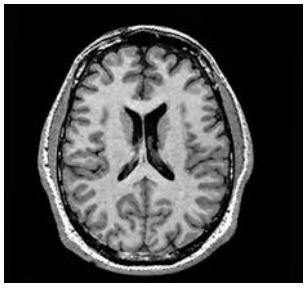
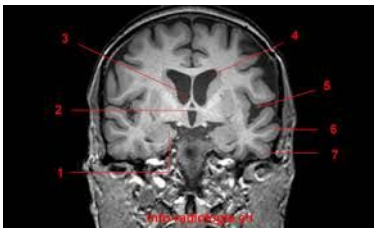
Which are these 3 planes?

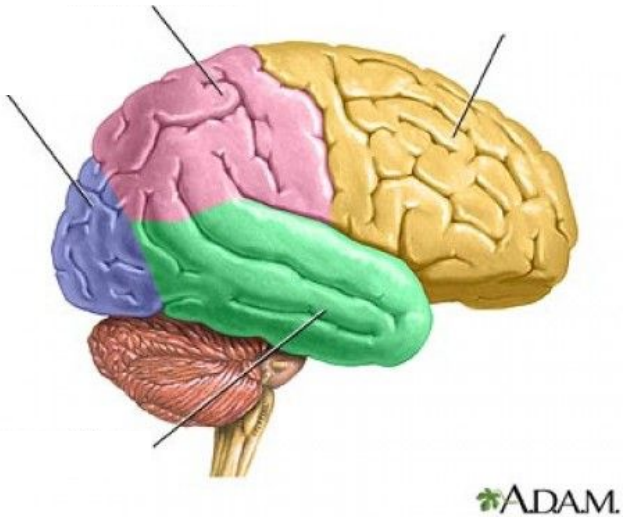






A. _____ B. _____ C. _____

Label and describe the lobes of the brain



What do these terms mean?

"*The visual cortex receives information directly from its **ipsilateral** LGN that receives signals from the **contralateral** visual field.*"

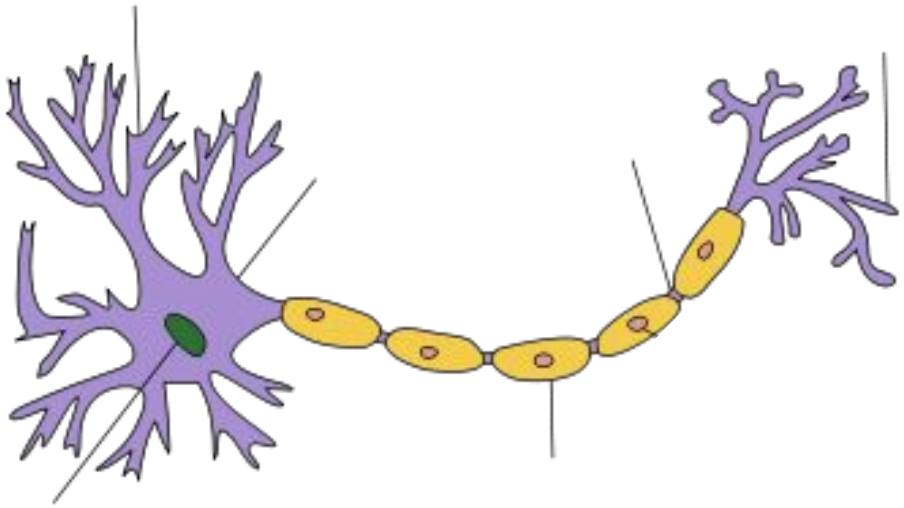
- Ipsilateral -
- Contralateral -

What is the function of these cells?

- Neuron -

- Glia cell -

Label these neuron parts



How do cells maintain equilibrium in our bodies?

- _____ - Difference in amount of a given chemical inside/outside a cell

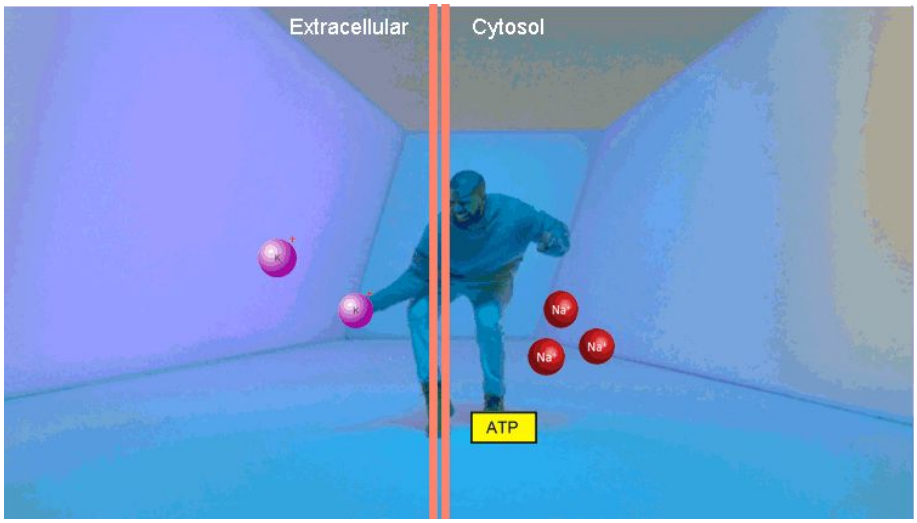
- _____ - Difference in charge inside/outside cell

What is the symbol for these ions?

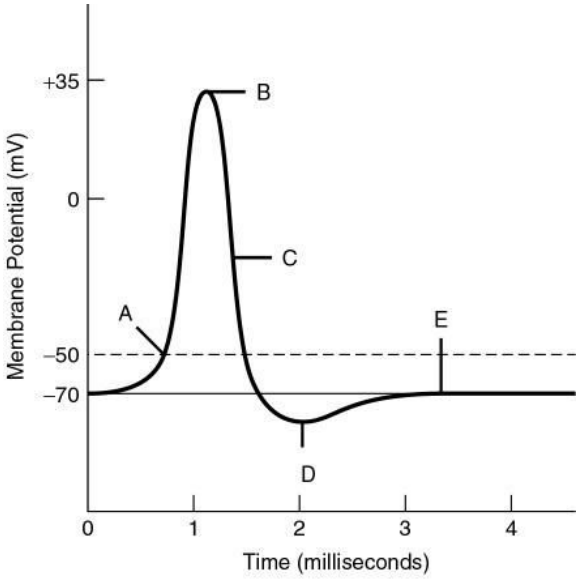
- Sodium:
- Potassium:
- Calcium:
- Chloride:

What is the Sodium-Potassium Pump?

3 Na+ OUT/2 K+ IN



Label and describe the steps of an action potential



Other Key Terms and Concepts

- Refractory period -

- All-or-none law -

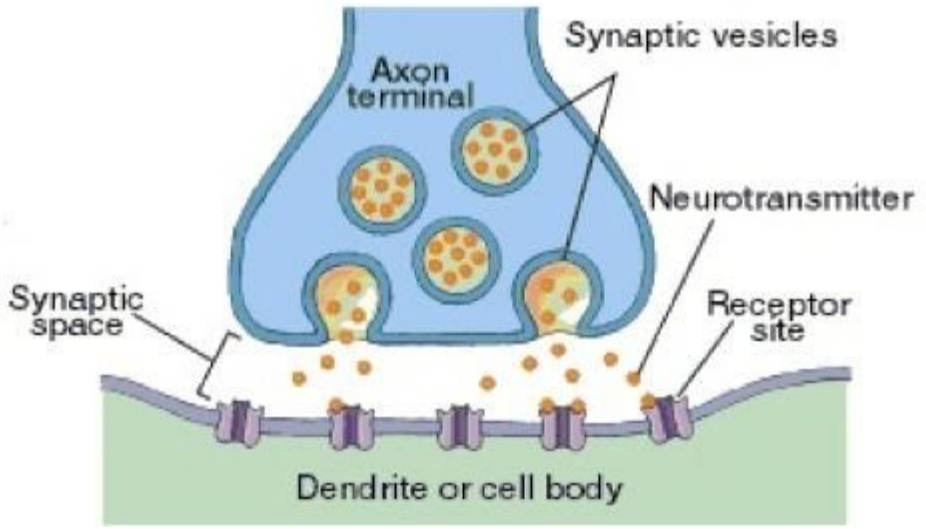
How does myelin aid in conduction velocity?

- Myelin sheath -

- Nodes of Ranvier -

- Saltatory Conduction -

How are NTs transferred between neurons?

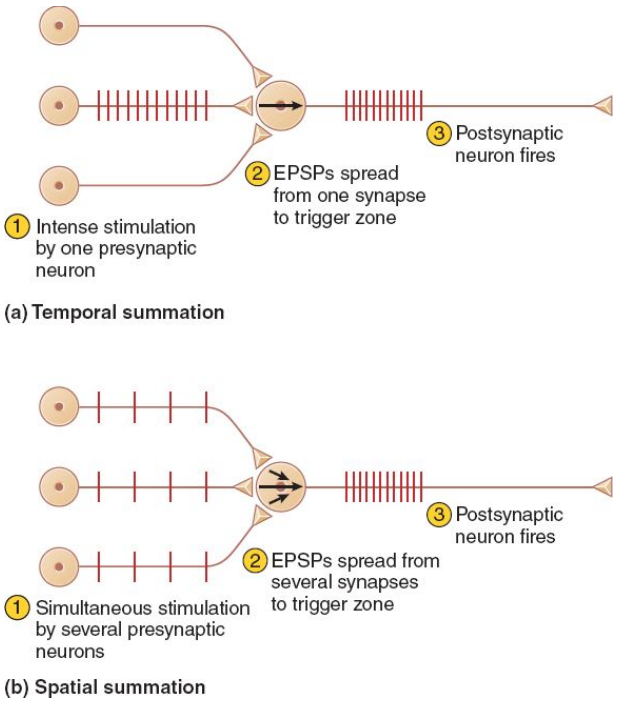


NTs can have 2 effects on postsynaptic cell

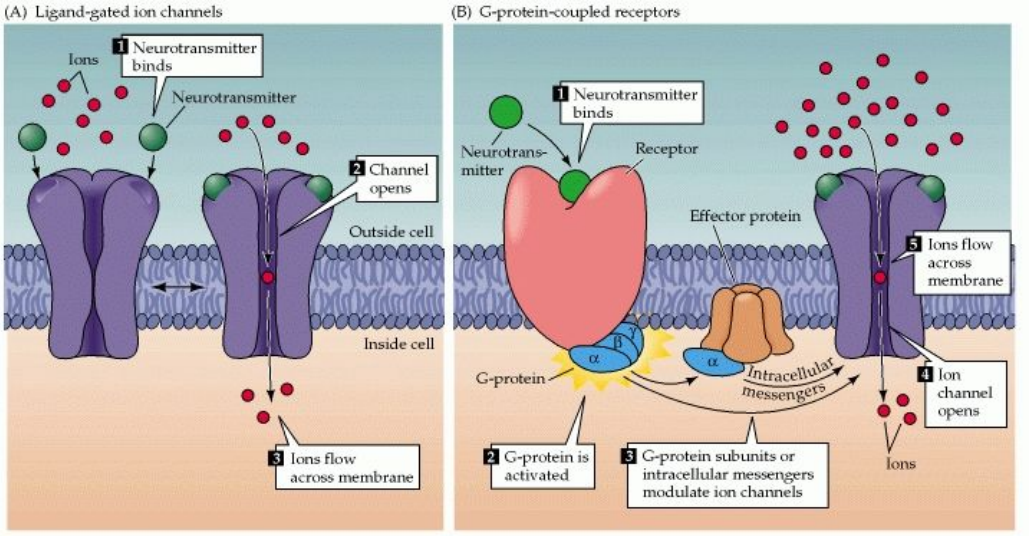
- EPSP -

- IPSP -

What is the difference between temporal and spatial summation?



2 mechanisms for how NTs affect the postsynaptic cell



What's the difference between agonists and antagonists?

- Agonist -

- Antagonist -

Main Neurotransmitters

- ACh - neuromuscular junction, arousal
- GABA - suppresses cortical activity, regulate anxiety
- Glutamate - learning, perception
- Serotonin (5-HT) - sleep, mood regulation
- Dopamine - reward, reinforcement
- Norepinephrine/Noradrenaline - arousal, attention
- Substance P - pain
- Endorphins - counteract substance P
- Hormones - e.g. oxytocin, insulin, cortisol

Memorization and Study Tips

- Print out a brain and label the parts
- Make flashcards
- Self-explanation