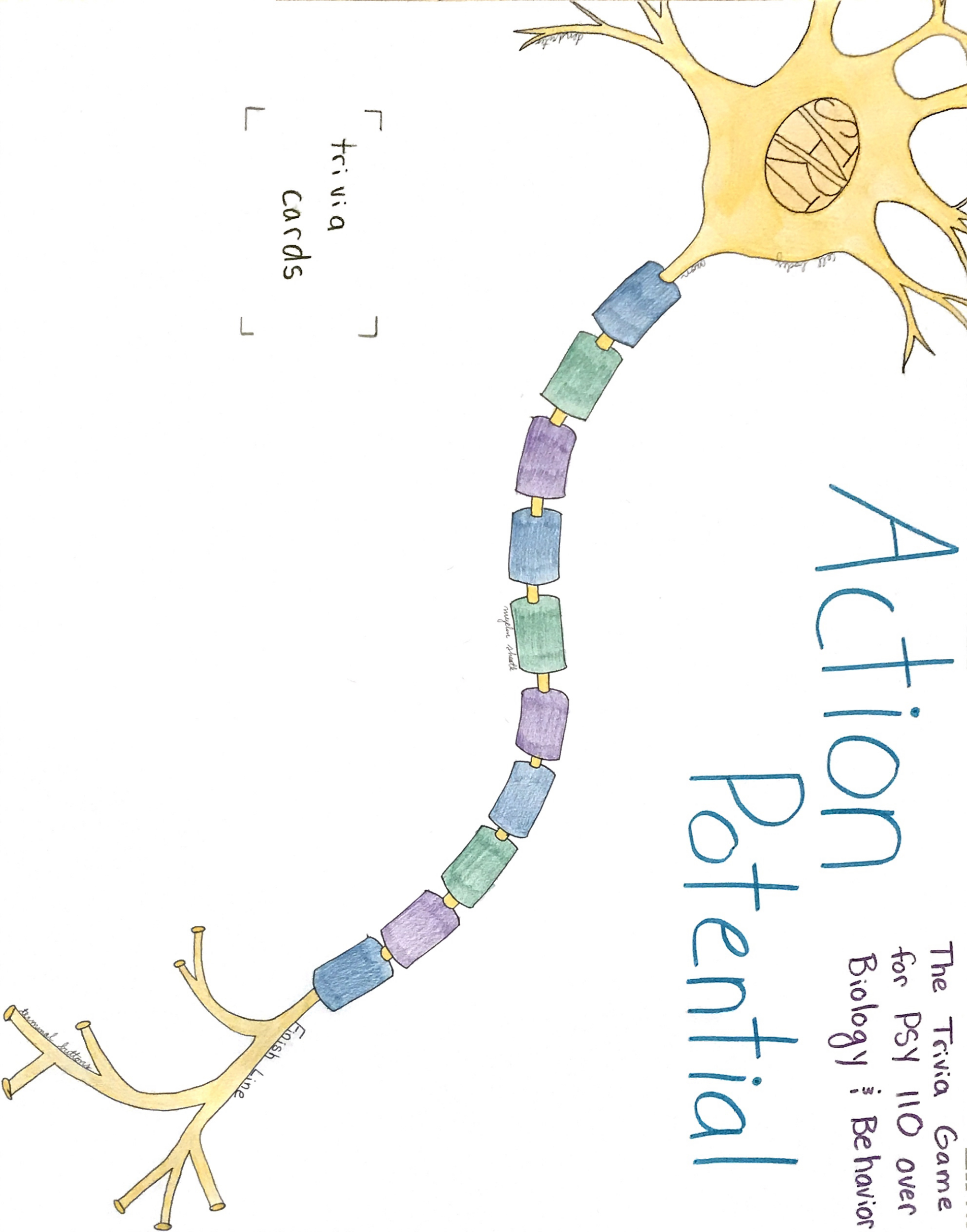
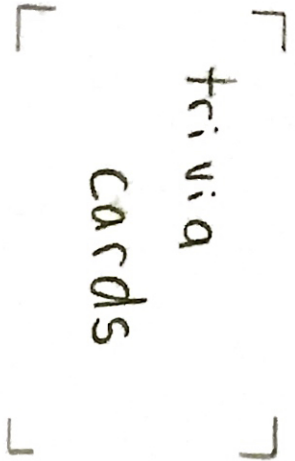


Action Potential

The Trivia Game
for PSY 110 over
Biology & Behavior



trivia
cards



English Line

terminal buttons

Rules For Play:

players: 2+

supplies: board, trivia cards, coin, tokens [rocks, paperclips]

goal: be the first player to arrive at the terminal buttons, starting at the cell body

and progressing by correctly answering questions

how to play: the player with the next birthday begins. flip a coin. heads, you could

progress 2 spaces, tails only 1 space. Another player draws a trivia card and asks the question. If answered correctly, advance 1 or 2

spaces (as determined). Continue until someone wins

the _____ is the gap between two neurons where chemical communications occur.

synapse

one of the membrane mechanisms that facilitates polarization is the _____ that pumps positively charged potassium ions into the cell and negatively charged sodium ions out of the cell.

sodium-potassium pump

Signals from the skin and muscles are transmitted via _____ nerves.

somatosensory

a resting neuron has a charge that is _____ on either side of the membrane. this is known as _____.

different / resting membrane potential

The sheath of an axon has gaps called the _____ after the first researcher to describe them.

nodes of Ranvier

When a neuron's excitatory input passes its firing threshold of about -55mV an _____ is generated.

action potential

A neurological disorder characterized by the deterioration of the myelin sheath is known as _____.

multiple sclerosis (MS)

the flow of _____ through _____ in the cell membrane is regulated by gating mechanisms.

ions / ion channels

A neuron can fire partially. T or F?

This is called the _____ principle.

F / all-or-none

excitatory signals _____ the cell membrane, whereas inhibitory signals _____ the cell. The signals _____ or _____ the likelihood of firing, respectively.

depolarize / hyperpolarize / increase / decrease

depolarize / hyperpolarize / increase / decrease

F / all-or-none

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action potential

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somatosensory

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sodium-potassium pump

synapse

One of the membrane mechanisms that facilitates polarization is the _____ that pumps positively charged potassium ions into the cell and negatively charged sodium ions out of the cell.

The _____ is the gap between two neurons where chemical communications occur.