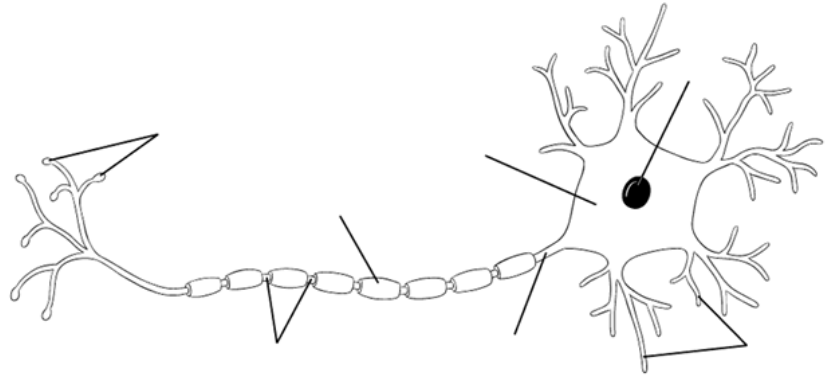


SUMMER HOMEWORK 4: THE NERVOUS SYSTEM WITH MR. ANDERSEN

Directions: Go to <https://www.youtube.com/watch?v=UabDiuTtUOM> and watch the video clip on the human nervous system. While watching the video, answer the questions below using complete sentences.

1) What things are controlled in the left hemisphere? The right hemisphere?

2) Labels the parts of the neuron to the right:



3) What is the purpose of the myelin sheath?

4) When a neuron is at rest, what element is found in abundance outside the cell membrane?

5) What causes the -70 millivolts of charge of the neuron?

6) When the sodium-potassium gated channels open, what happens to the charge of the neuron?

7) How is the gradient reestablished after the nerve impulse has passed through the neuron?

8) Where is the synapse? What is released there?

9) Name one of the specific chemicals that can be found in the synapse.

10) What does it mean to be a negative neurotransmitter?

11) Compare inhibitory to excitatory messages.