

BioFlix Study Sheet for How Neurons Work

Print out this PDF and fill it in to make your own study sheet for how neurons work (or write on a separate sheet of paper). Refer to your book, BioFlix Animation, and BioFlix Tutorials if you need help.

Part I. The Action Potential. For each of the following events in an action potential, draw the axon membrane of the neuron. Be sure to indicate where charge is positive and negative, and draw ions entering or exiting the neuron where appropriate. Describe the key events.

Neuron	Drawing of Axon Membrane	Description of Key Events
Resting potential		
Stimulus begins to change the distribution of charge across the membrane		
Action potential: Sodium channels open		
Action potential: Sodium channels close and potassium channels open		
Neuron returns to resting potential		

Part II. Conduction of an Action Potential. Draw three stages in the conduction of an action potential. For each stage, indicate where the action potential is taking place. Be sure to indicate where charge is positive and negative, and draw ions entering and exiting the neuron where appropriate. Describe the events.

Stage	Drawing of Axon Membrane	Events
1		
2		
3		