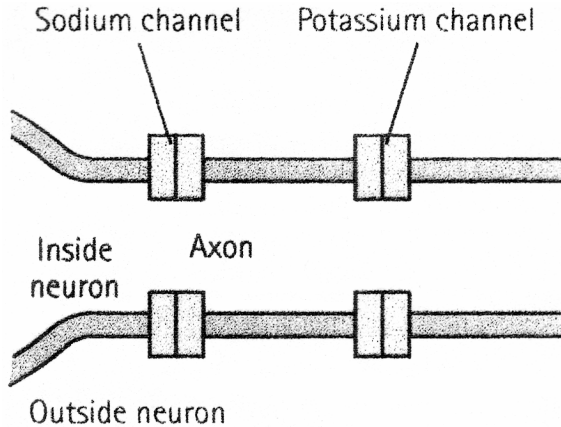


Conceptual Biology

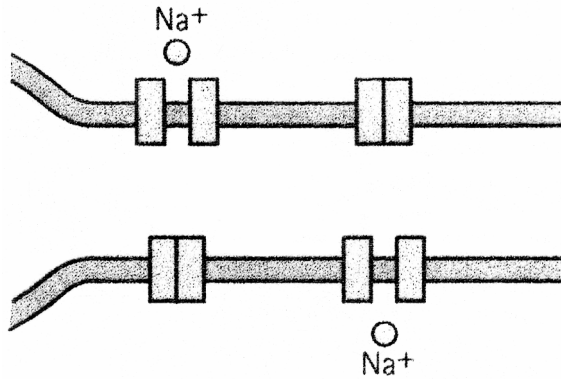
Chapter 12: The Nervous System

Action Potentials

- This is a neuron at rest. The neuron is at its resting potential. Draw a + sign on the side of the membrane that is positively charged. Draw a - sign on the side of the membrane that is negatively charged.



- Now the neuron fires! There is an action potential. The sodium channels open. Use arrows to show how the sodium ions move. Draw a + sign on the side of the membrane that is positively charged. Draw a - sign on the side of the membrane that is negatively charged.



- Now the sodium channels close, and the potassium channels open. Use arrows to show how the potassium ions move. Draw a + sign on the side of the membrane that is positively charged. Draw a - sign on the side of the membrane that is negatively charged. The action potential is over.

