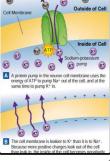
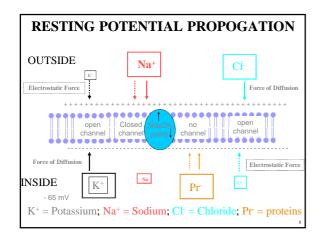
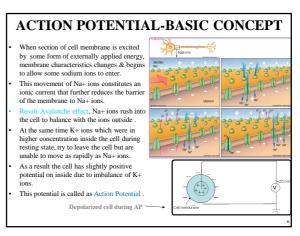
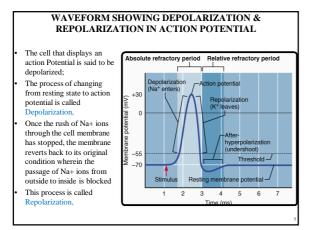


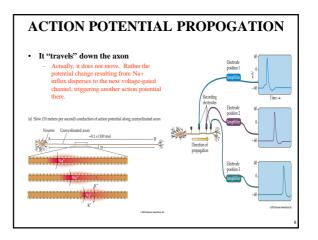
This charge difference is known as the Res Potential of the neuron. The neuron is not actually "resting" because it must produce a constant supply of ATP to fuel active transport.











The Moving Impulse An impulse begins when a neuron is stimulated by another neuron or by the environment. Once it begins, the impulse travels rapidly down the axon away from the cell body and towards the axon terminals.	Sodum channel Closed Open Refractory Peset
As Figure shows, an impulse is a sudden reversal of the membrane potential. What causes the reversal?	Sodium ions enter
The neuron membrane contains thousands of protein channels or gates, that labors into types strongly. Generally, these gates are closed. At the leading edge of an impulse, however, sodium gates open, allowing positively charged Na- ions to Nor inside. The inside of the membrane temperatily becomes more positive than the outside, reversing the resting potential. This reversal of charges is called an Action Potential. As the action potential, potassium gates open, allowing positively charged K- ions to flow out. This restores the Resting Potential as that the neuron is once again negatively charged on the inside of the cell membrane and positively charged on the inside of the cell membrane and positively charged on the isometer. A nerve impulse is <i>self-propagating</i> . That is, an impulse at any point on the fall of a row of dominese. As each domino falls, it causes its neighbour to fall. Then, as the impulse passes, the domineses et themselves up again, ready for another Action Potential.	+40 Nat channels, and the continues to enter cell, continues to the cell, cell the