

Action potential learning objectives



**ASSIGN
BUSTER**

Neurons communicate via electrical and chemical signals
Cell membranes semi-permeable, leakier to potassium than to sodium because more positive charges leak out of the cell than leak in making cell more negative

ON ACTION POTENTIAL LEARNING OBJECTIVES SPECIFICALLY FOR YOU FOR

ONLY \$13.90/PAGE Order Now Sodium Potassium Pump (3)-Helps keep more sodium outside of cell and more potassium inside of cell

-uses 1 ATP to pump out 3 sodium, and pump in 2 potassium

-is actively setting concentration gradient so that inside is more

negative Potassium does this when membrane is at rest leaving cell, due to

leaky channels, making it more negatively charged relative to the outside of

the cell Sodium does this when membrane is at rest stays outside of cell, can't

get in because sodium channels are closed at rest Refractory Period period

occurs when cell is becoming more negative as potassium channels are open