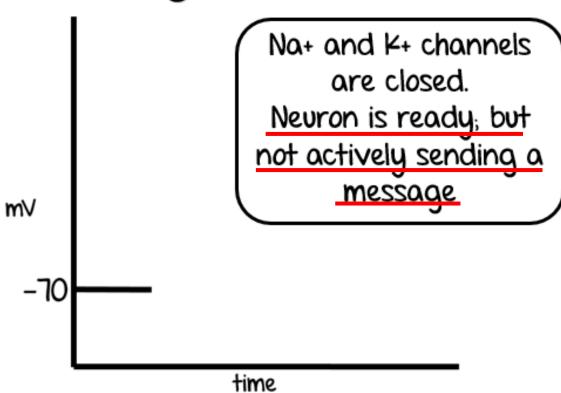
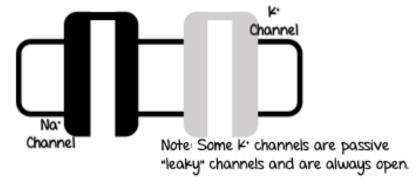
# **Action Potential Review**

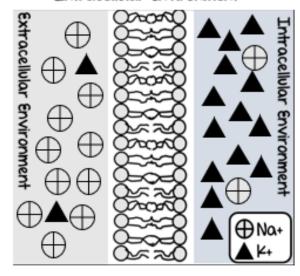
- Essential components are identified as Essential on your sheet and are underlined in red on the lesson.
- The <u>extension concepts</u> are labeled as such on the sheet and not underlined on the lesson.

# Stage 1: Resting

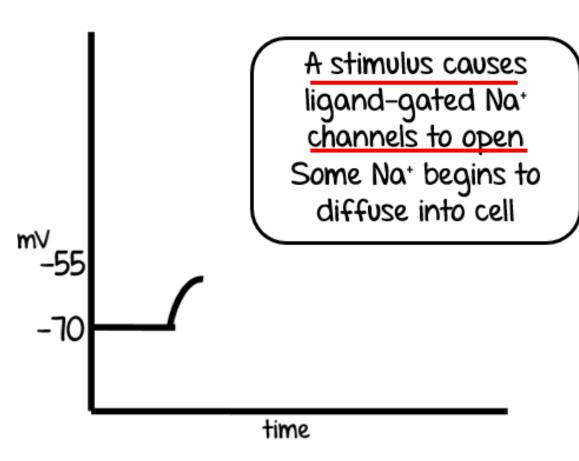


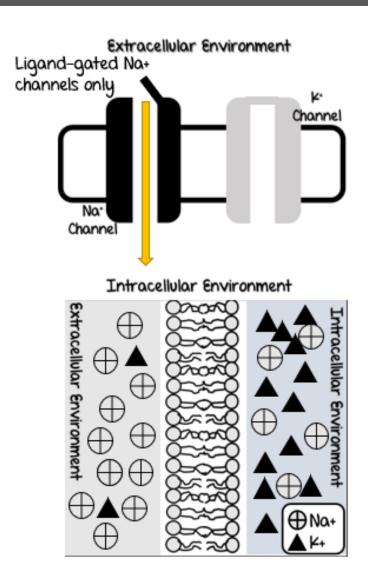
### Extracellular Environment



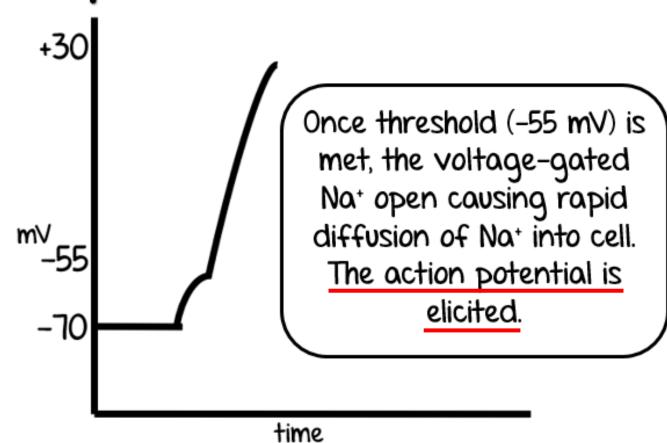


### Stage 2: Stimulus->Threshold

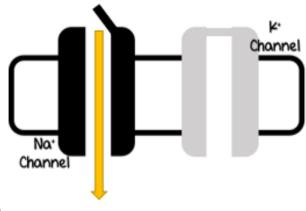


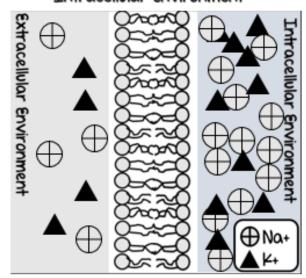


# Stage 3: Depolarization

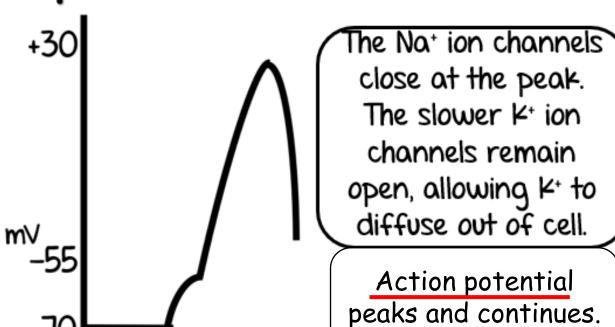


### Extracellular Environment

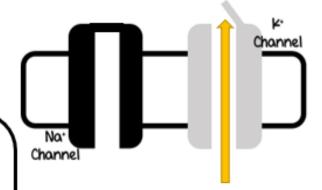




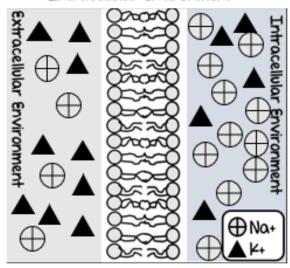
### Stage 4: Repolarization



### Extracellular Environment

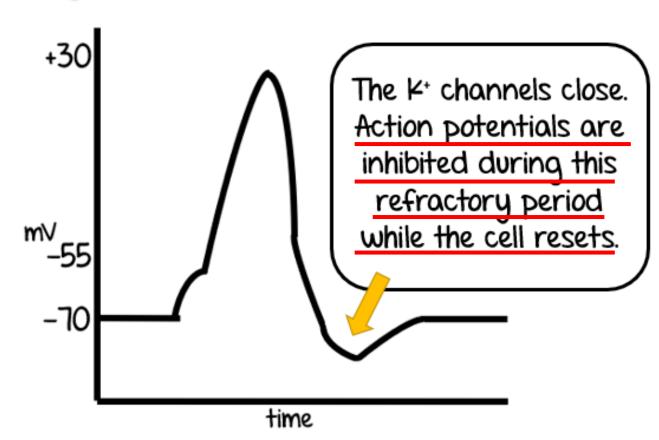


### Intracellular Environment



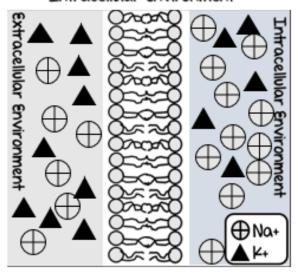
time

# Stage 5: Hyperpolarization



### Extracellular Environment

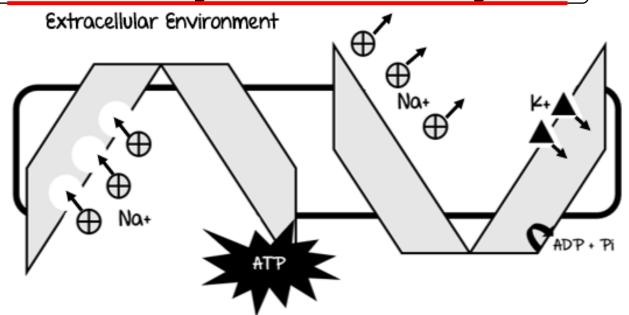




### Stage 6: Resting

The Na<sup>+</sup>/K<sup>+</sup> pumps uses ATP to pump 3 Na<sup>+</sup> out of cell and 2 K<sup>+</sup> into cell.

Cell resets and goes back to its resting state.



Intracellular Environment

### Extracellular Environment

