ction Potential: In the outside we have higher concentration of Kt Marketing of Kt Marketing of Kt Marketing a signal. The new on is not actively transmitting Its membrane potential = -70 mV How do we excite the newron? During excelled phase of The neuron is actively transmitting an action potential. It is a neuro transmitter that plays important role in muscle movement and brain function. for active potential to be generated, there has to be stimulus that excites the neuron

Nat Nat Misarea in -ve The ACh binds with the desdrites to allow Nations to flow into it Graphically 3-38 -59 Thoushold ->-95 mV The more Nat ions flow into the neuron, The more (tre) the neuron gets and reaches threshold When the newson of gets tre enough to reach -55 mV the action potential is likely to fire. · During Depolarization: Share Marinary Marina These Nations are gonna trigger Ata Sodium-gated voltage channels that go all along the axon Model Nations enter into the newson through the opened voltage gate of Sodium. These these Nations tregges the next Voltage gated sodium channel \$ to open up THE THE SOON

The newcon became so much (ve), that it meaches +30mV

graphically = [10]

Moreldd a After Stimuli, ose have Depetarization When the neurons starts to become more (tre), the reuron is deplacinged This depolarization is the start of ACTIVE POTENTIAL This means the Nations rushes into the newsons and create more tree in the inside, causing it to become more -ve on the outside 0 ++++++ ++++++ · During Repoderization: After the neuron reaches +30mV sit has to go lack to the resting phase by becoming more -ve (-90 mV) These Sodium gates are gonna close Then the Potassium voltage gated ions are gonna open up Not Not Not The Kt ins will flow out

The neuron becomes more (R), that it resolve Graphically: and opining the potentium voltage gate to allow the tions to flow out Inorder for novem to become none we we have it breams - 90 mV and not - 70 mV Sal This is because &i) We have a lot of K+ ions leaving the cell in the graph, it undershoots & reach -90mV a This phase is called Hyper polatrized Reportory period In this phase, the newcon is recharging and makes it harder for newcon to generate another active potential Goes Back to Resting Phase :-