## **Transmission of Action Potentials**

## 1. Resting Potential

- -65-70mV
- The membrane is polarised- there is a potential difference across the membrane
- Only the potassium pump is in action, actively transporting 3Na+ out for every 2 K+ • in
- Sodium voltage gated channels are closed •
- Potassium voltage gated channels are closed •
- The inside of the membrane is more negative than the outside of the membrane due • to dissolved substances such as amino acids
- There is however, more Na+ inside the plasma membrane than out •

- 2. Depolarisative Prevolum voltage gatebolium somen This is an example of r Nat corr Inside of plasma membrane becomes more positive, respectively to the outside •
  - More Na+ come in •
  - So more sodium channels open
  - More Na+ come in (like a domino effect- this is where local currents apply to • transmit the info in one direction)
  - About -50mV is reached