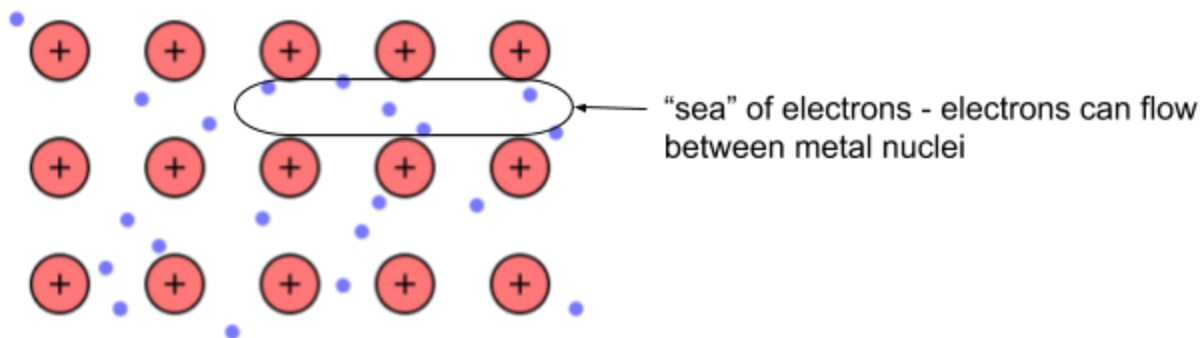


Understanding Terms in the Electricity Unit

Electricity is the movement of electrons.

| Term and Symbol | Unit | Definition |
|-----------------|------------------|---|
| Current, I | ampere (A) | The rate at which charge, Q, is flowing through a conductor. |
| Voltage, V | volt (V) | The difference in charge (potential) between two points. |
| Resistance, R | ohm (Ω) | A material's tendency to resist the flow of charge (electrons). |

If electrons can move freely in a material, the material is called a **conductor**. Metals are good conductors, because electrons can flow freely through metals.



If

electrons cannot move freely in a material, the material is called an **insulator**. Plastics and rubber are good insulators, because electrons cannot move easily in them.

Measuring Current, Voltage and Resistance

| Term | Unit | Device |
|---------------|------------------|-----------|
| Current, I | ampere (A) | Ammeter |
| Voltage, V | volt (V) | Voltmeter |
| Resistance, R | ohm (Ω) | Ohmmeter |