Capacitor (device):

- Two oppositely charged conductors separated by an insulator.
- The charges $+Q$ and $-Q$ on conductors generate an electric field $\vec{E}$ and a potential difference $V$ (voltage).
- Only one conductor may be present. Then the relevant potential difference is between the conductor and a point at infinity.

Capacitance (device property):

- Definition: $C = \frac{Q}{V}$
- SI unit: 1F = 1C/V (one Farad)