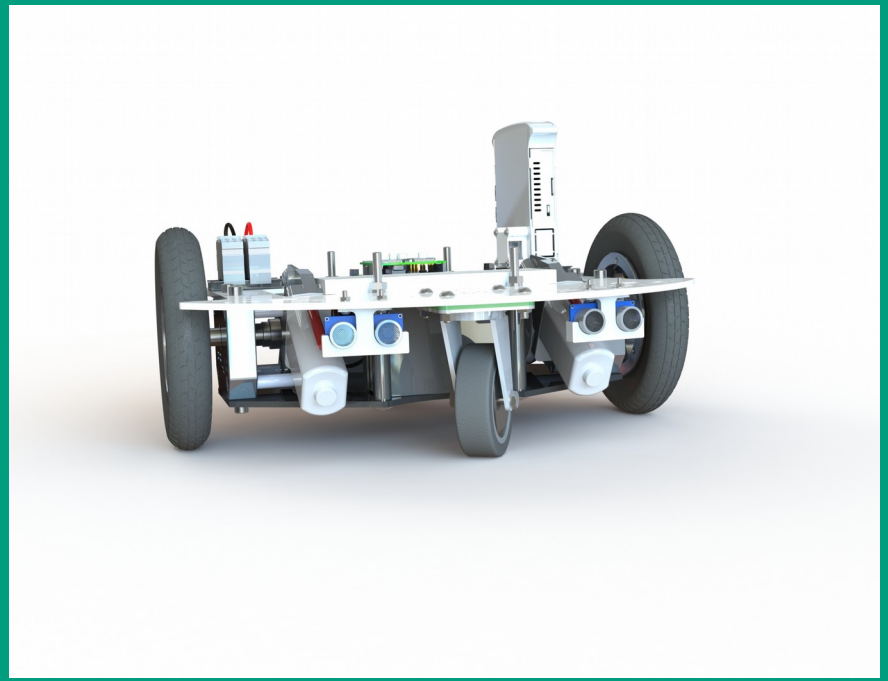
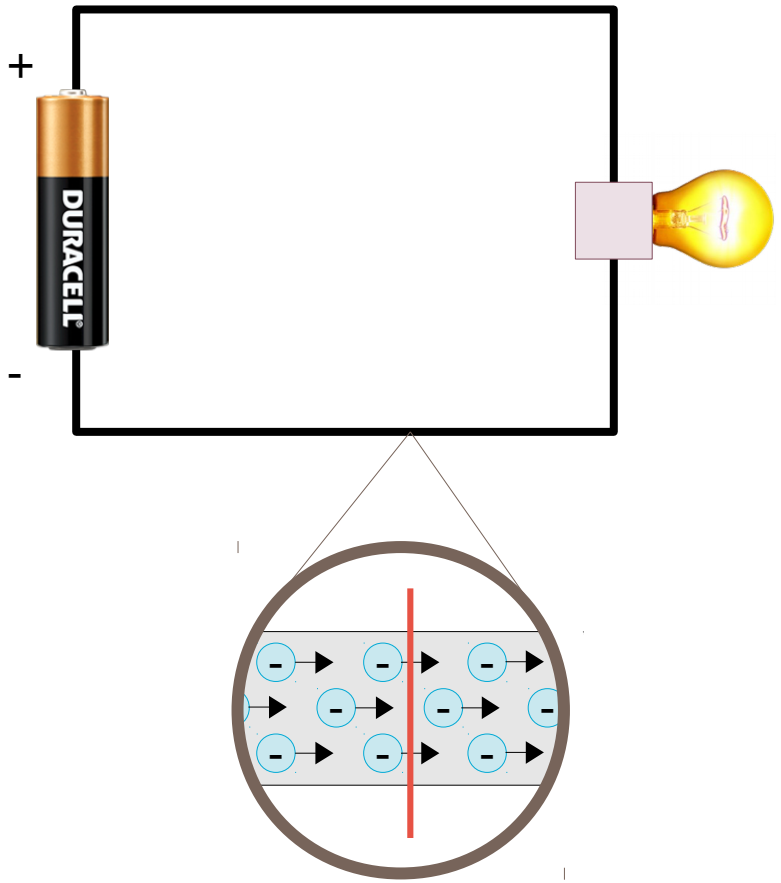
IMRT100 – Strøm og Spenning



Strøm

- Elektrisk ladning i bevegelse
- SI-enhet: Ampere [A] = coulomb/sekund
  (ladning/tid)

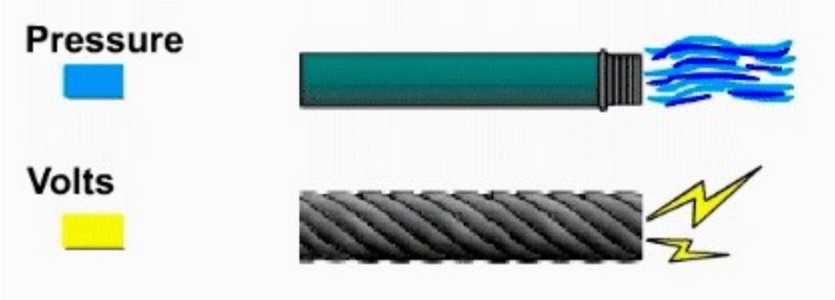


Spenning

- Skyvkraften som driver elektroner gjennom kretsen

- SI-enhet: Volt [V]
  = joule/coulomb
  (arbeid/ladning)

  = watt/ampere
  (effekt/strøm)



Motstand og Ohms lov

Ampere

Volt

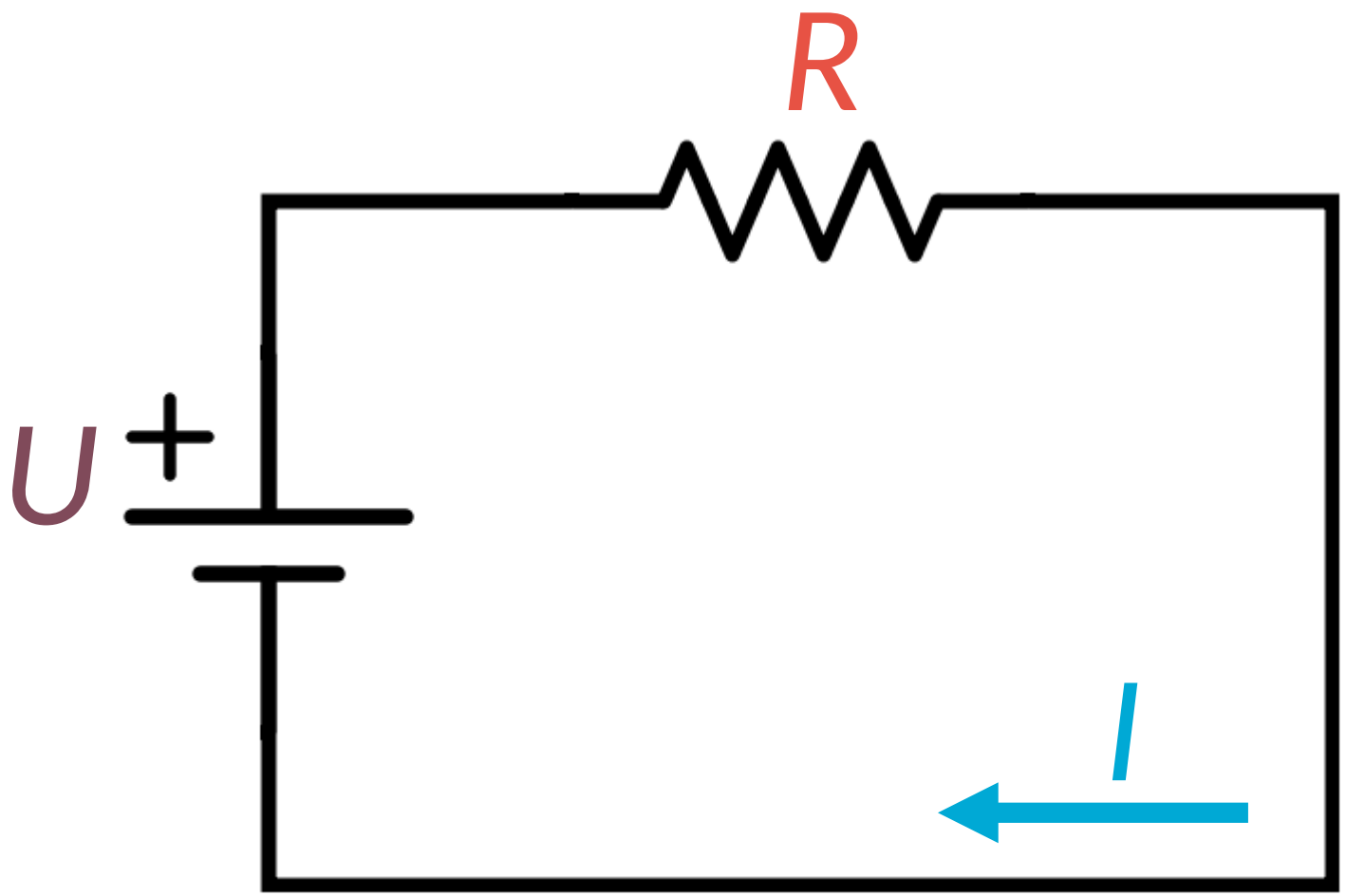
Strøm [A]

Spenning [V]

$$I = \frac{U}{R}$$

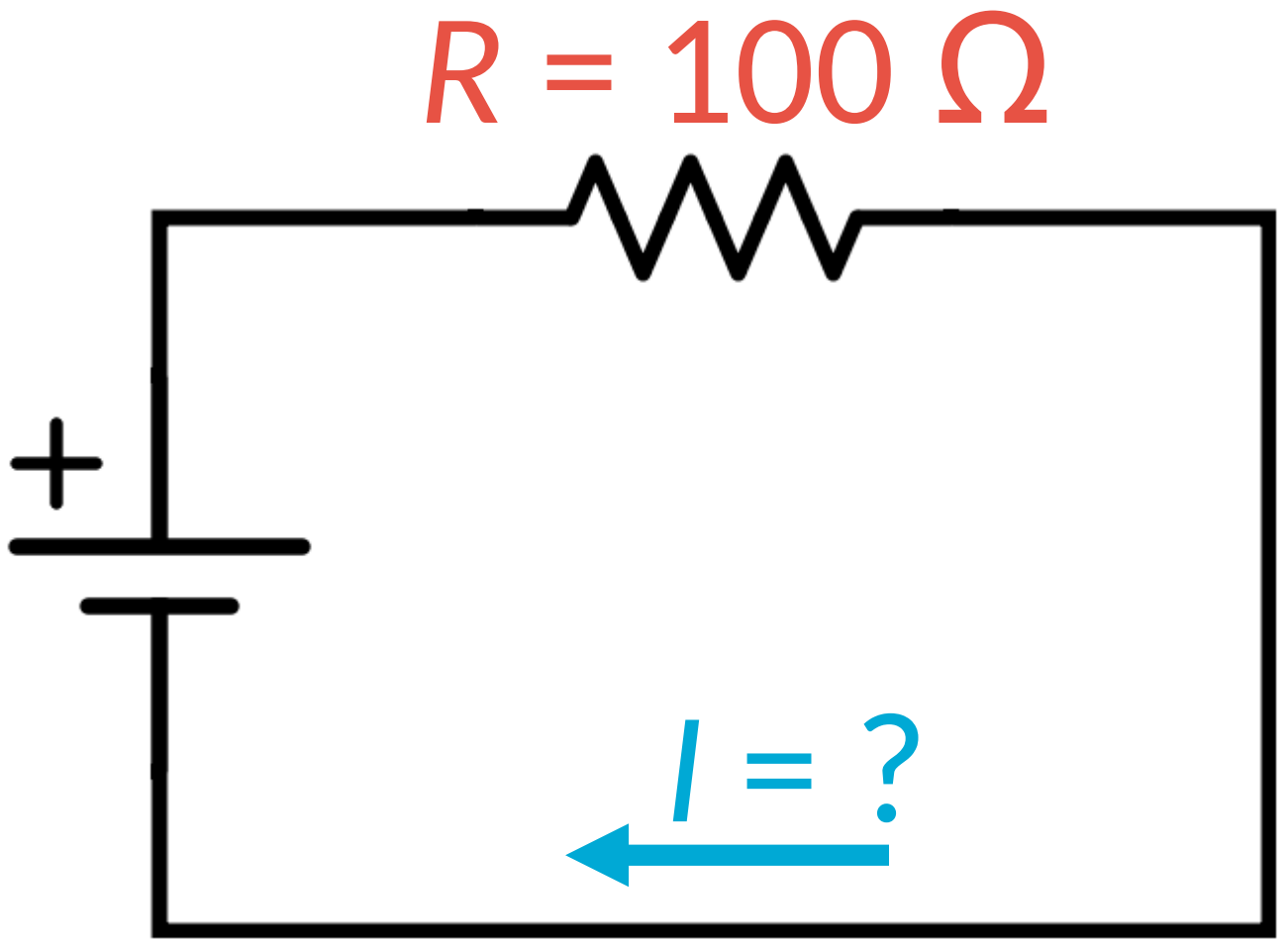
Motstand [Ω]

Ohm



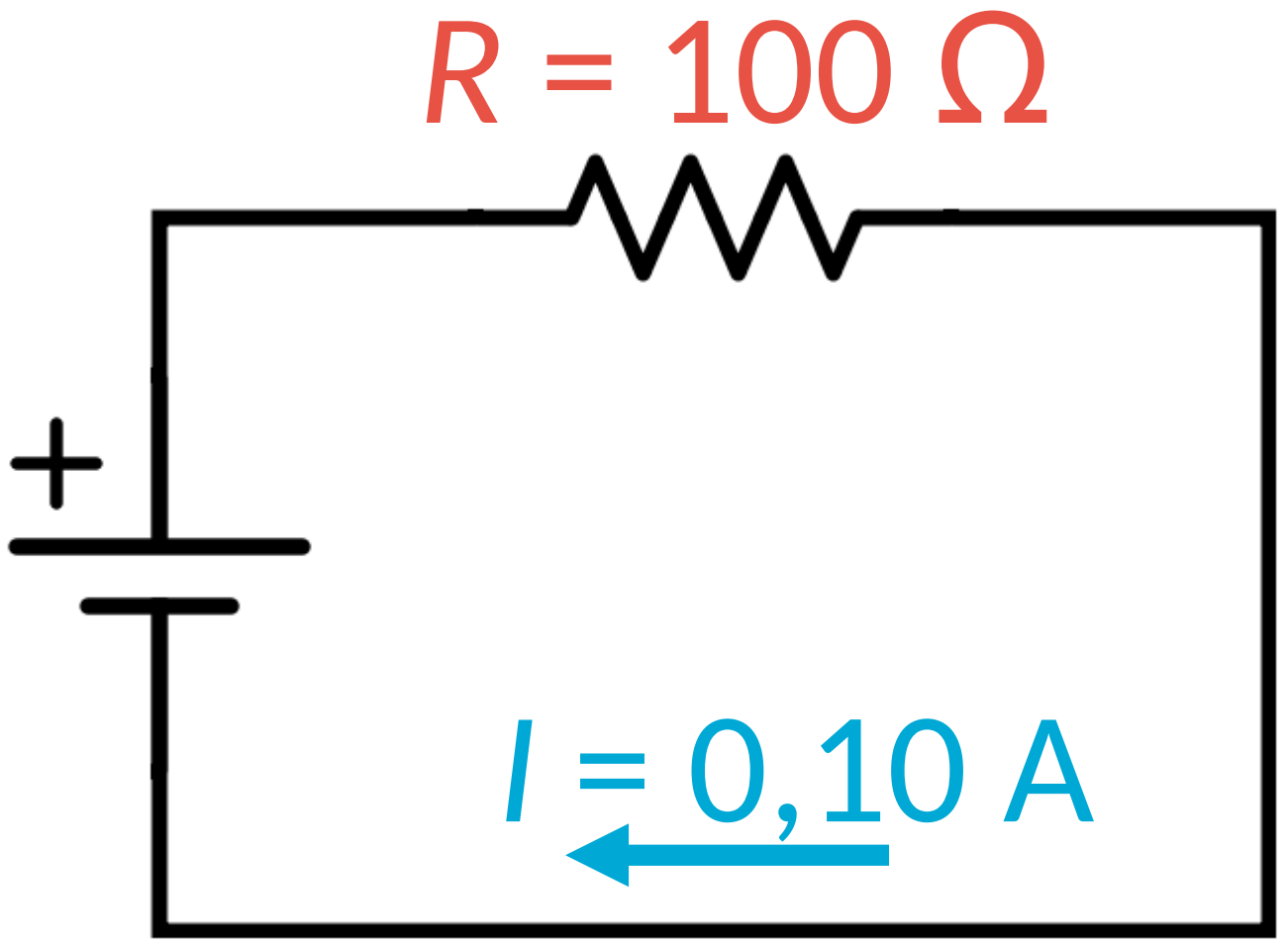
Motstand og Ohms lov

$$I = \frac{U}{R} = \frac{10\,\mathrm{V}}{100\,\Omega} = 0{,}10\,\mathrm{A}$$

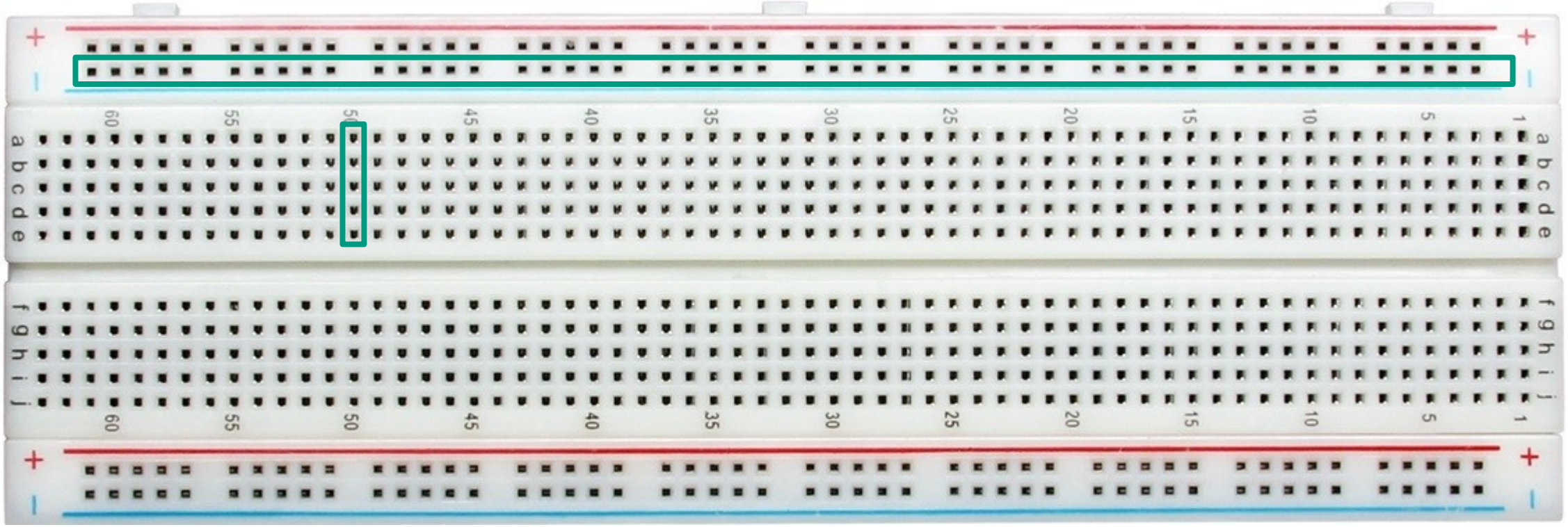


Motstand og Ohms lov

$$I = \frac{U}{R} = \frac{10\,\mathrm{V}}{100\,\Omega} = 0{,}10\,\mathrm{A}$$



Koblingsbrett (breadboard)



Koblingsbrett (breadboard)