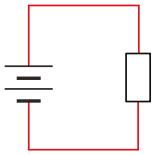
A simple circuit: one loop

Measure and calculate for series connections



Copy the circuit and show where you placed your meters

Record your measurements

V = volt

I = ampere

Calculate the power

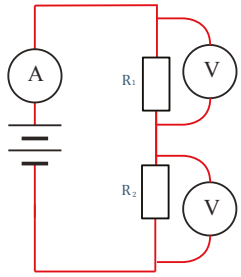
P = V × I

= volt × ampere

= watt

A circuit with series connections: still one loop

Measure and calculate for series connections



Record your measurements

V_1 = volt

V_2 = volt

I = ampere

Calculate the power dissipated in each resistor

$P_1 = V_1 \times I$

= volt × ampere

= watt

$P_2 = V_2 \times I$

= volt × ampere

= watt

Calculate the power dissipated in each resistor

$P = P_1 + P_2$

= watt + watt

= watt