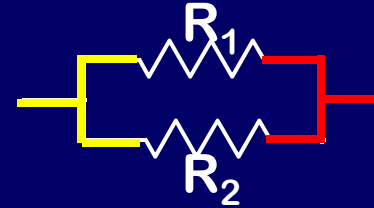


# Summary

## Series



## Parallel



### Wiring

Each resistor on the same wire.

Each resistor on a different wire.

### Voltage

Different for each resistor.

Same for each resistor.

$$V_{\text{total}} = V_1 + V_2$$

$$V_{\text{total}} = V_1 = V_2$$

### Current

Same for each resistor

Different for each resistor

$$I_{\text{total}} = I_1 = I_2$$

$$I_{\text{total}} = I_1 + I_2$$

### Resistance

Increases

Decreases

$$R_{\text{eq}} = R_1 + R_2$$

$$1/R_{\text{eq}} = 1/R_1 + 1/R_2$$