

## Resistance

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## Equation

resistance = voltage current

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

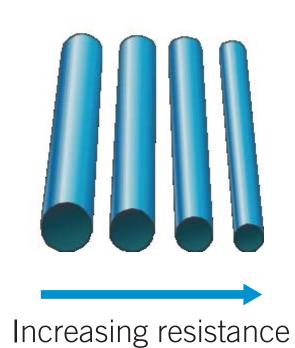
A resistance of 1 ohm ( $\Omega$ ) needs 1 volt to drive a current of 1 amp through it

Longer wires have higher resistance



Increasing resistance

Resistance increases as cross-sectional area decreases



## Circuit diagram

