

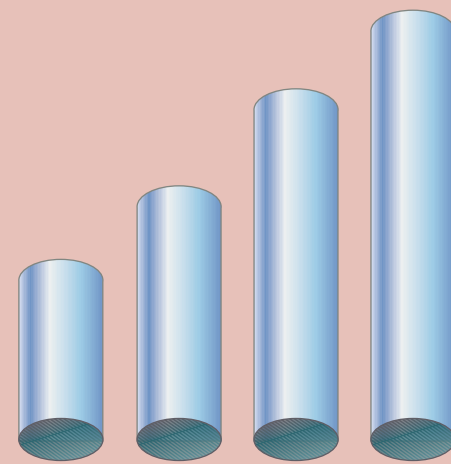
Resistance

Equation

$$\text{resistance} = \frac{\text{voltage}}{\text{current}} \quad R = \frac{V}{I}$$

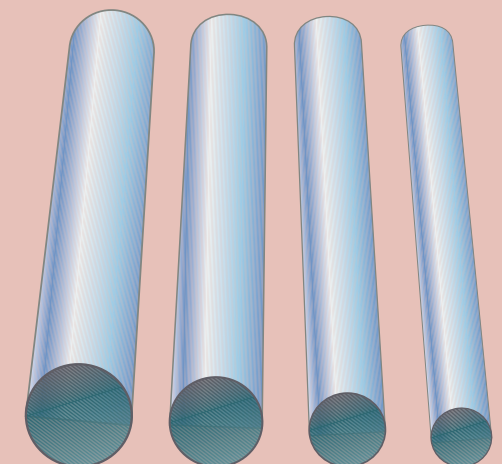
A resistance of 1 ohm (Ω) needs 1 volt to drive a current of 1 amp through it

Longer wires
have higher
resistance



Increasing resistance

Resistance
increases as
cross-sectional
area decreases



Increasing resistance

Circuit diagram

