

Equations:

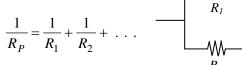
 $I = \frac{q}{t}$ **Electric Current:**

Ohm's Law: $V = I \cdot R$ **Electric Power:** $P = I \cdot V$

Resistors in Series:

 $R_S = R_1 + R_2 + \dots$

Resistors in Parallel:



Circuit Components:

Battery Resistor Capacitor Switch Voltmeter **Ammeter**

<u>Name</u>	<u>Symbol</u>	<u>Unit</u> <u>Notes</u>
Current	I	Ampere (Coulomb/second)
Charge	q	Coulomb
Time	t	second
Potential Difference	V	Volt (Joule/Coulomb)
Resistance	R	$Ohm(\Omega)$
Resistance - Series	R_S	Ohm (Ω)
Resistance - Parallel	R_P	Ohm (Ω)
Power	P	Watt (Joule/second)
Energy	E	Watt-second (Joule) kiloWatt-hour (kWh = 3,600,000 W·s)

Helpful Equations:
$$P = \frac{W}{t}$$
 or $P = \frac{Energy}{t}$

$$W = F \cdot d$$

$$Q = m \cdot c \cdot \Delta T$$