

Mr. Schneider presents...

Circuit Topics

- Batteries (Pumping charge, converting chemical PE to electric PE)
- Resistance in conductors
- Ohm's law
- Kirchhoff's 2 laws
- Series and parallel circuits
- Current direction vs. electron motion direction
- AC vs. DC
- Fuses and Breakers

- $i = \frac{q}{\Delta t}$

- $V = iR$

- $P = \frac{W}{\Delta t}$

- $P = iV = i^2 R = \frac{V^2}{R}$

- $\frac{1}{R_{\parallel}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots$