- 1. Current in terms of charge and time
- 2. Current in terms of Ohm's Law
- 3. Potential Difference in terms of Ohm's Law
- 4. Equivalent resistance for three equal resistors in series
- 5. Equivalent resistance for three equal resistors in parallel
- 6. Relationship between resistance and resistivity
- 7. 3 versions of power
- 8. Relationship between total current and current through each of 3 resistors in series
- 9. Relationship between total current and current through each of 3 resistors in parallel
- 10. Relationship between power supply voltage and the potential drop across each of 3 resistors in series
- 11. Relationship between power supply voltage and the potential drop across each of 3 resistors in parallel

Current in terms of charge and time
$$I = AR$$

Current in terms of Ohm's Law $J = \frac{V}{R}$
Potential Difference in terms of Ohm's Law $V = IR$
Equivalent resistance for three equal resistors in series $Req = R_1 + R_2 + R_3$
Equivalent resistance for three equal resistors in parallel $\frac{1}{Req} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$
Relationship between resistance and resistivity $R = \frac{1}{R}$
3 versions of power $P = IV = \frac{1}{R} = \frac{1}{R} = \frac{1}{R}$
Relationship between total current and current through each of 3 resistors in series $I_{TDT} = I_1 = I_2 = I_3$

Relationship between total current and current through each of 3 resistors in parallel

Relationship between power supply voltage and the potential drop across each of 3 resistors in series

Relationship between power supply voltage and the potential drop across each of 3 resistors in parallel