7th Grade Career Exploration Module

Career Focus:

Electrical Engineer

Vocabulary
Resistor

- a device that is used to control the flow of electricity in an electric circuit
Impedance

- In an electrical circuit, the apparent opposition to the flow of an alternating current that is comparable to the actual electrical resistance to a direct current

\[ Z = \frac{1}{C \omega} \]
Capacitor

- a device that is used to store electrical energy
Transistor

- a small device that is used to control the flow of electricity in radios, computers, etc.
Circuit

- the complete path that an electric current travels along
Ohm

- a unit for measuring electrical resistance
Farad

- the standard unit of measurement for capacitors (capacitance)
Ampere

- a unit for measuring the rate at which electric current flows - also called an amp
Watt

- a unit for measuring electrical power
Oscilloscope

- a test instrument that is used to measure and analyze electronic signals (waves and pulses) displayed on its screen
EM (electromagnetism)

- a magnetic field that is produced by a current of electricity
Ground

- a wire or metal object that makes an electrical connection with the earth – usually singular