



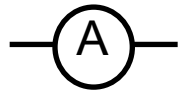
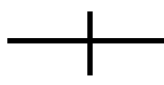
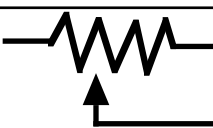
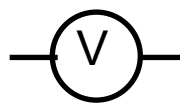
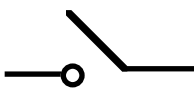


Electric Circuits

Types of Circuits:

-Series: simplest, one continuous circuit path, short conductor length. If one device in the circuit fails, all the others fail.

-Parallel: more complex, alternate circuit paths, longer conductor length, appearance often resembles a ladder. If one device in the circuit fails, others still work.

Symbols used in electric circuits:

Connection		Resistor		Ammeter	
No Connection		Variable Resistor		Voltmeter	
Switch		Light bulb		Battery	

Protecting Circuits:

-Fuses: a piece of enclosed wire that will melt at a temperature lower than the rest of the wires in a circuit. Simple, cheap, but can only be used once.

-Circuit Breaker: a device that opens a switch, and shuts off electricity through the circuit to prevent the wires in a circuit from overheating. Reusable. Devices must be turned off before it will allow current to flow again.

Two types:

Magnetic and Thermal (bimetallic strip)