

# CIRCUITS: SERIES CIRCUIT AND PARALLEL CIRCUITS

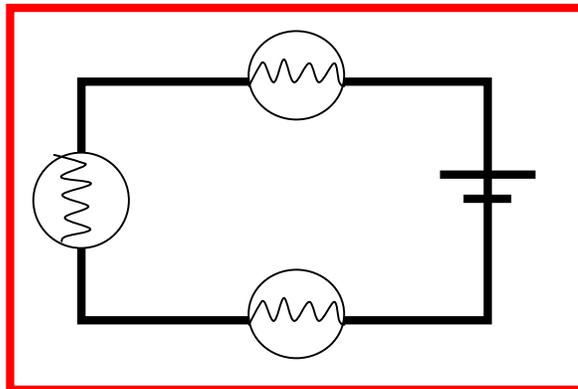
## SERIES CIRCUIT

Ex. Voltage = 6 volts

Current = 12 amps

**CURRENT STAYS THE SAME, VOLTAGE DIVIDES  
AMONG RESISTORS!**

**6 volts divided by three bulbs = 2 volts for each bulb**



**1 path**

**Voltage: total divided among  
3 bulbs – each bulb would  
have 2 volts**

**Current only has to travel one  
path so current through each  
bulb would be 12 amps.**

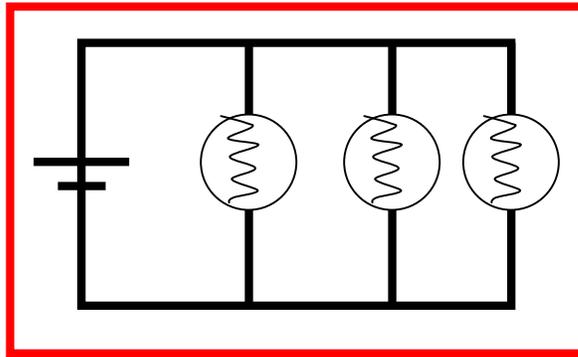
## PARALLEL CIRCUIT

Ex. Voltage 9 Volts

Current = 15 amps

**CURRENT DIVIDES AMONG PATHS, VOLTAGE STAYS THE SAME!**

**15 amps divided by three bulbs = 5 amps for each bulb**



**3 paths**

**Voltage: each path has only one resistor, so each resistor has 9 volts**

**Current has to travel 3 different paths so it will be divided by the three paths, so each resistor would have a current of 5 volts.**