



## Analogies

In this course, you learned...

Voltage is the **potential** to develop a current across a conductor. The **higher** the **voltage** or *potential*/the **higher** the **possible current** that will pass through a **conductor** at a certain **resistance**.

**Volts** are analogous to **pressure** in the water pipe. It's the "push" that the tank exerts on the pipeline downstream from the tank

**Current is the flow rate** of electrons through the circuit.

Decreasing resistance increases current flow.

**Ohms** is the measure of resistance.

**Current, not Voltage, does the work** in electrical circuits. The flow of current through an electrical circuit is what lights the bulb, heats the stove, runs the motor, etc.

Routing and controlling the flow of current is the goal of every electrical circuit.

### Electrical

\*Volts = Potential

\*Amps = Current

\*Watts = Power

\*Ohms = Resistance

### Electrical = Plumbing

\*Volts = Pressure

\*Amps = (GPM)

\*Watts = Power

\*Ohms = Pipe Size

### Electrical = Automotive

\*Volts = (RPMs)

\*Amps = Torque

\*Watts = Horse Power

\*Ohms = Friction



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