2.10.20 Electricity: Ohm's Law



Today's Objectives:

- Tell static electricity and circuits apart
- Identify voltage, current, resistance
- Know Ohm's Law
- Learn how much electricity is fatal

Electricity: Ohm's Law

How is a circuit different from static electricity?

Constant flow of charge

B w: 12 up ralease of charge (L:sht ning

Circuit Diagrams

Voltage Pressure cleatric flow

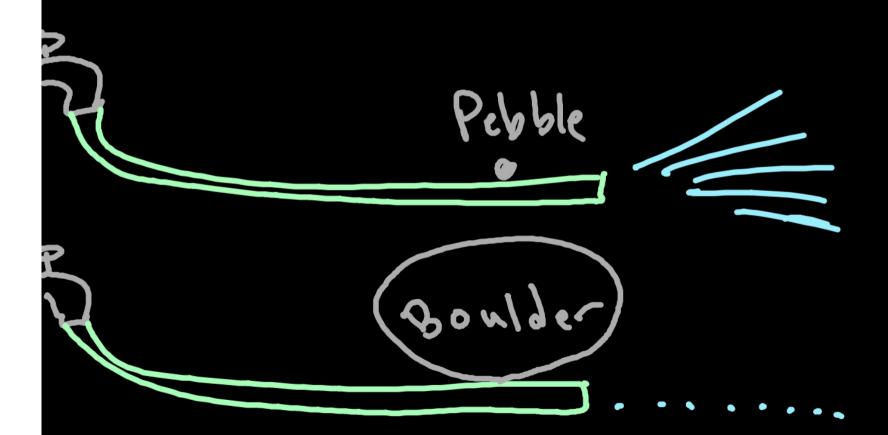
Resistance Voltage

Resistance

Flow rate

of electricit

Current



Ohm's Law:







1: Current (Amps)

V: Vo Hage (Volts)

R: Resistance (Ohms, SZ)

Voltage - electrical pressure

(VSA)

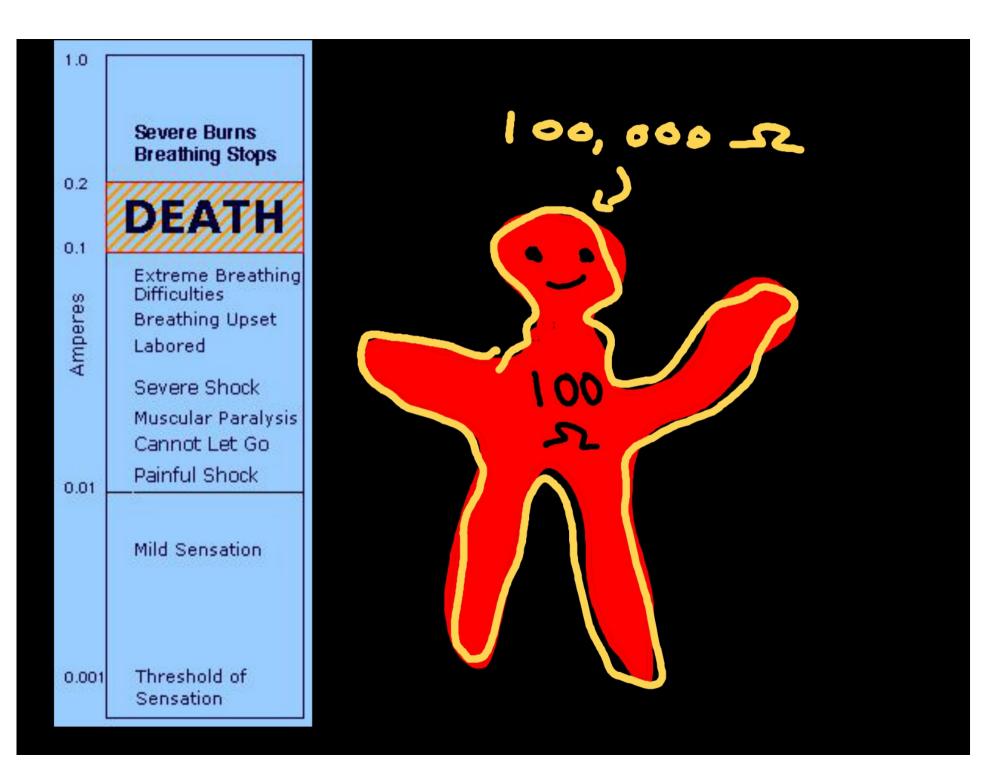
Outlets: 120 Volts, Cuccent (AC)

Batteries:
Direct ARA/AA/CID: 1.5V
Current
(DC) Car: 12.6 V

A 2.0 amp pencil sharpener is hooked up to a 120 volt outlet.

What is its resistance?

Electrocution - how much is fatal?



Make a Simple Circuit (1 Bulb)

- 1 Battery Holder
- 2 Battery Clips
- 1 D Battery
- 1 Lightbulb Holder
- 1 Lightbulb
- Wires



