

# Daily Quiz

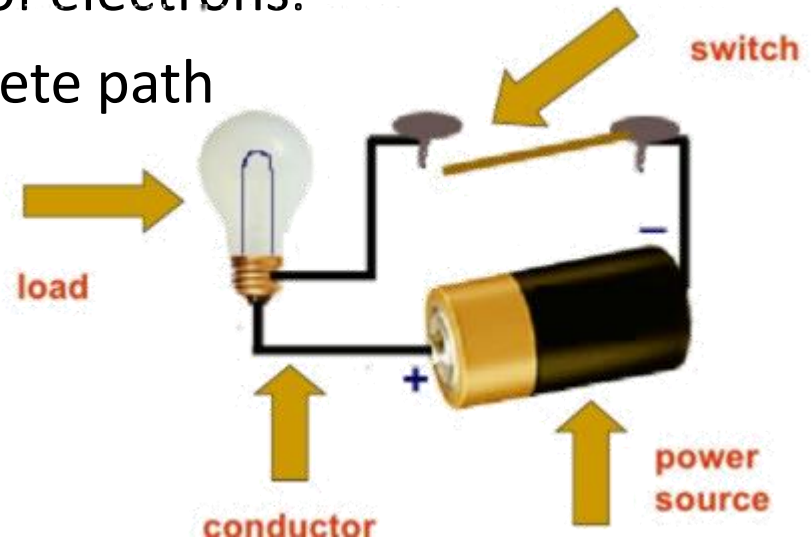
1. What is the difference between static and current electricity?
2. What 2 things are required for current electricity?
3. Draw a simple circuit and label the 4 main parts
4. Explain the Law of Electrical Charges

# DAILY QUIZ - answers

1. Static electricity is the buildup of electrons to create an electric charge, but those electrons do not move or flow. Current electricity is the flow of electrons.

2. An energy source and a complete path

3. Labeled circuit:



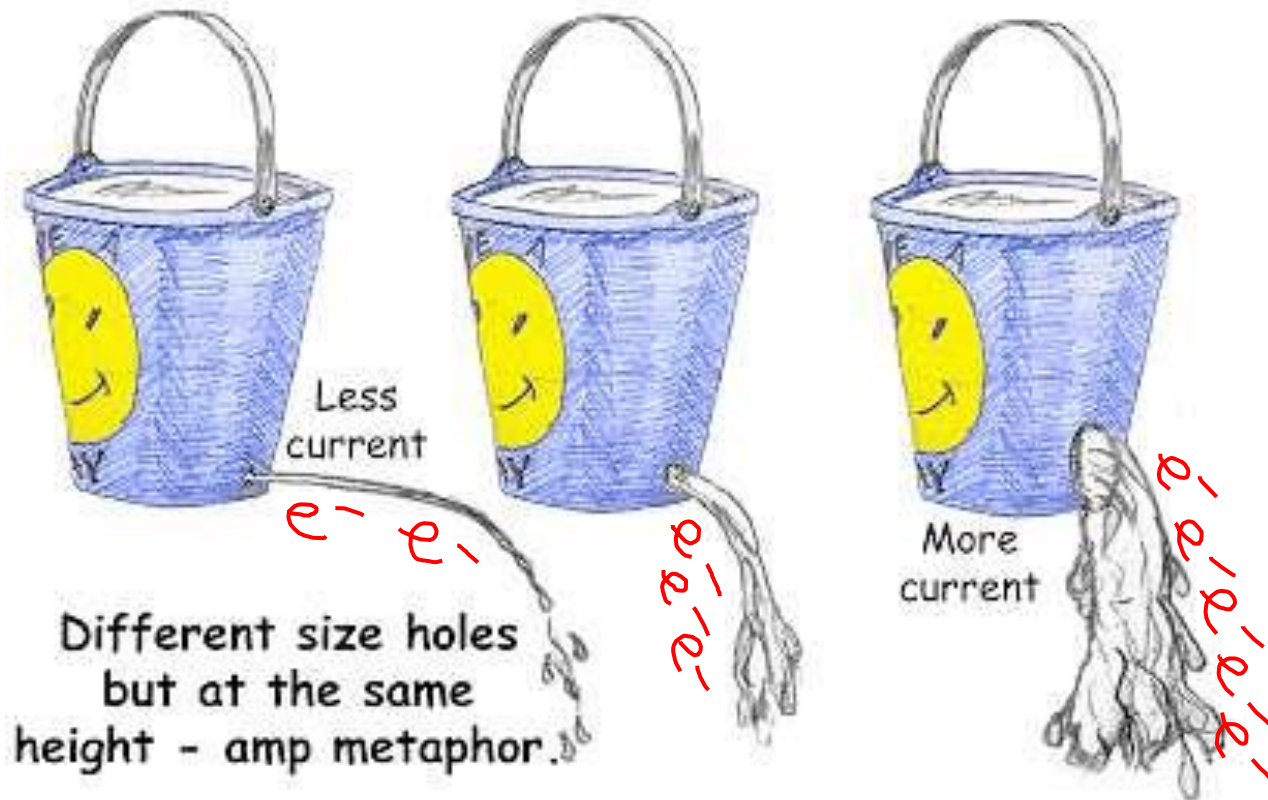
4. Opposite charges attract (+ -),  
same charges repel (+ + or - -)

# CURRENT

CURRENT	The rate at which electrons flow
AMPERES (A) “AMPS”	The unit of measurement for current
AMMETER OR GALVANOMETER	The tool used to measure amperes

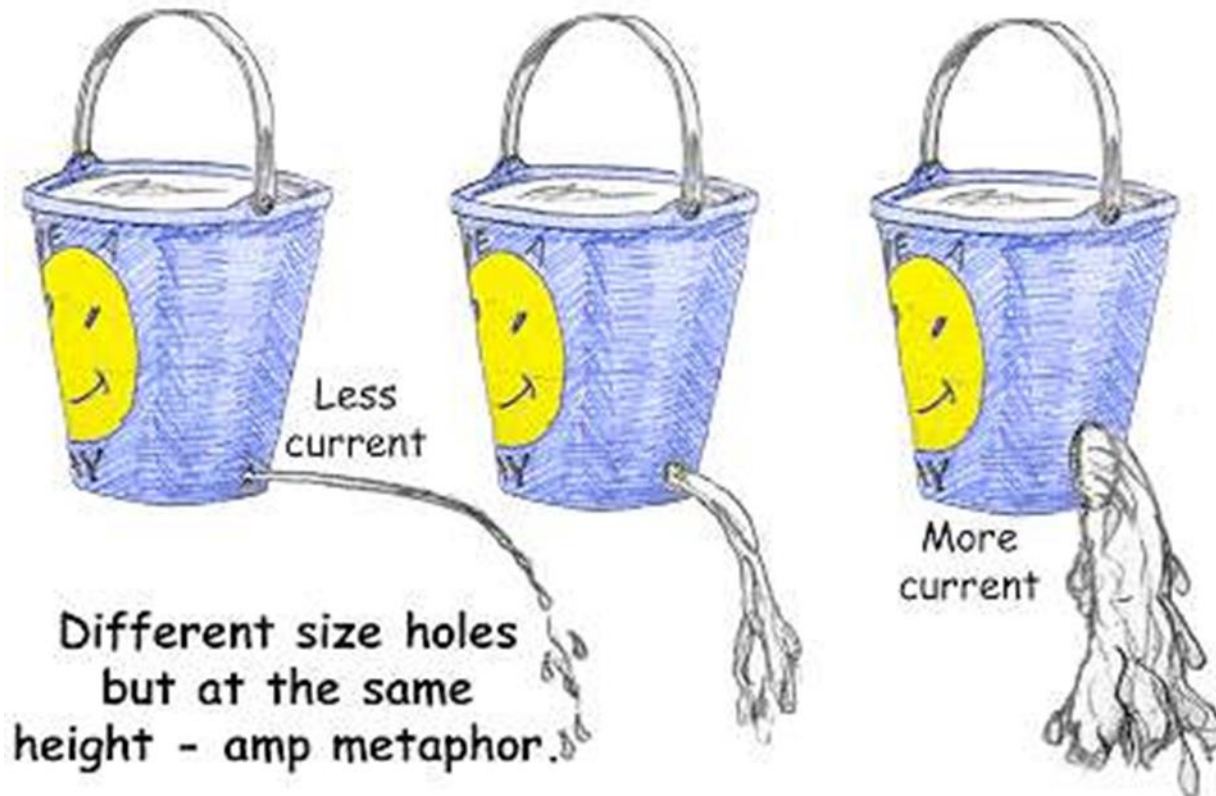
# CURRENT

- Current is like the speed of water that comes out of the tap, except it is the speed of electrons



# CURRENT

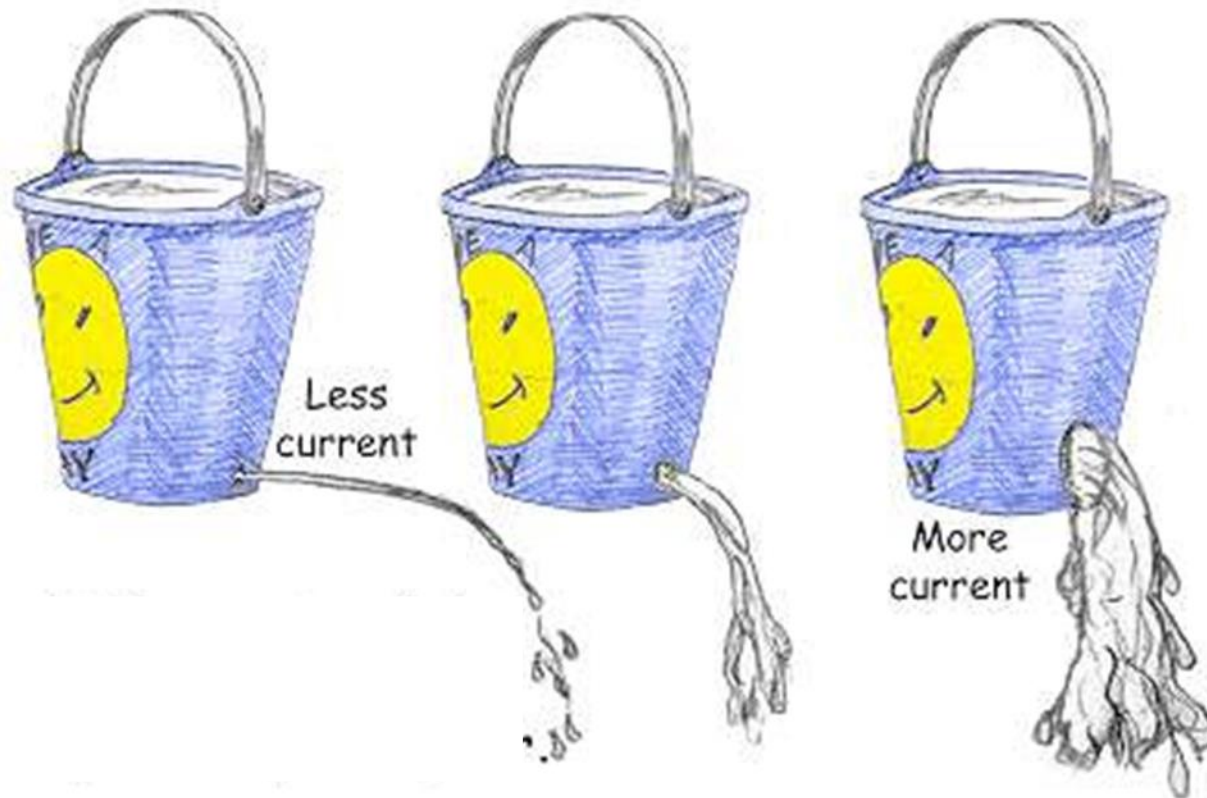
- Current is measured in Amperes, also called “amps”



# CURRENT

Notation: I

Unit: amps

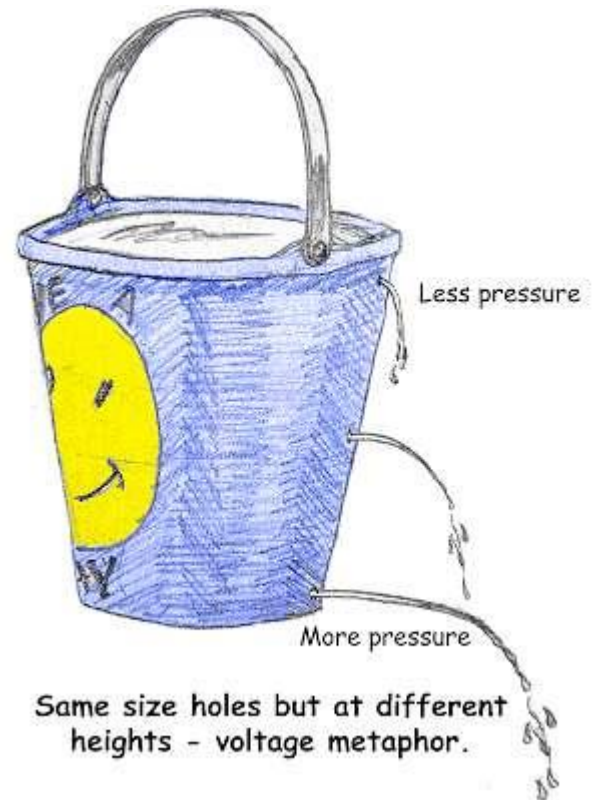


# VOLTAGE

VOLTAGE/ “POTENTIAL DIFFERENCE”	The force that makes electricity move through a wire
<u>VOLT</u>	The unit of measurement for voltage
VOLTMETER	The tool used to measure volts

# VOLTAGE

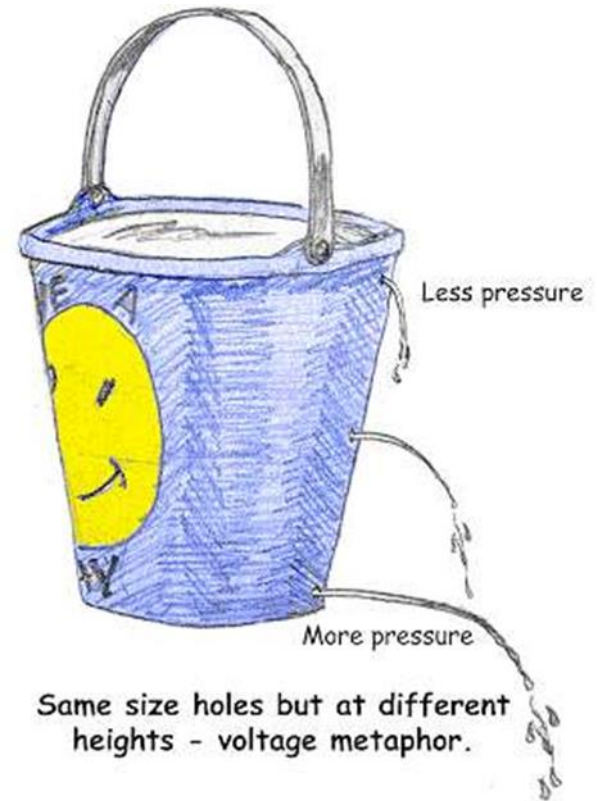
- Voltage is like the water pressure, forcing the water to flow
- <https://youtu.be/MwKwNopObEw> (water hose)
- [https://youtu.be/V1ulri4s\\_E8](https://youtu.be/V1ulri4s_E8) (animation)





# VOLTAGE

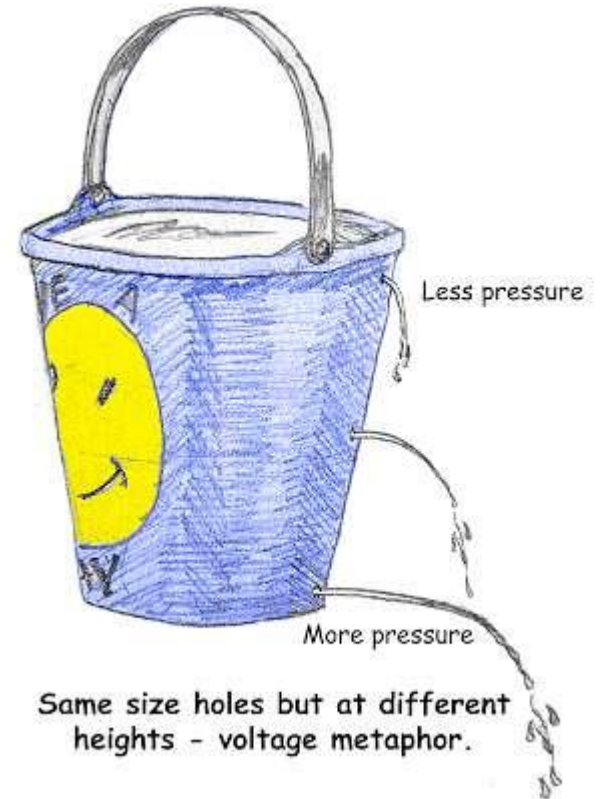
- Voltage is measured in volts



# VOLTAGE

Notation: V

Unit: volts



# Summary: Current vs. Voltage

- **Current (I)** is measured in **Amps**
  - CIA
- **Voltage (V)** is measured in **Volts**
  - VVV

✓ Check Your Understanding

# ✓ Check Your Understanding

1. Current is the flow of electrons
2. The diagram on the left has higher current because more water would flow out in any set amount of time.
3. Voltage is the force or pressure that forces electrons to flow.
4. C
5. B

