Guiding Question: What is electricity?

Learning Goal: Describe how electricity needs to flows to light a light bulb.

#### Agenda

- 1) Electricity Pretest
- 2) Waves Test results
- 3) Lighting a light bulb activity
- 4) John Travoltage
- 5) Notes on Electricity

**Introduction to Electricity** 

Words of the day Current Circuit Electricity

**Electrons** 

Check your test Grade

**Take the Pretest** 

2nd: k53hj

4th: k53hf

9th: k53h2

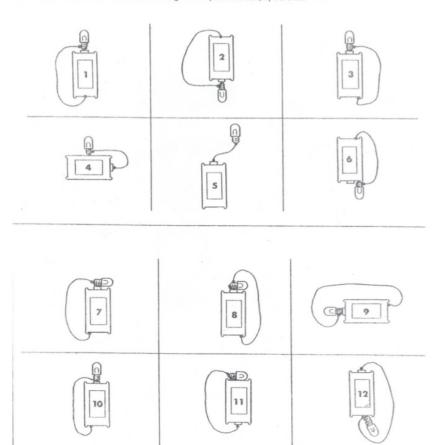
2nd:ktrp4

4th: ktrpp

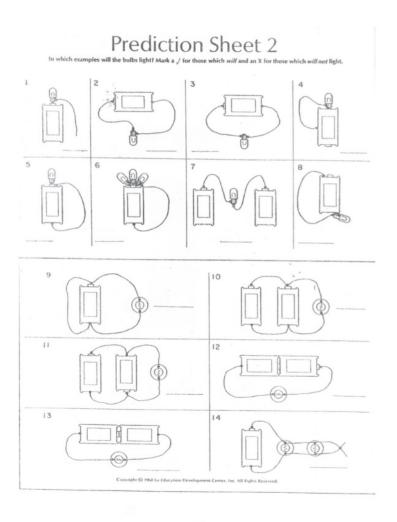
9th: ktrpy

#### Prediction Sheet 1

Will the bulb light? If you are not sure, try it and see!



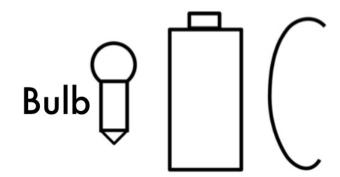
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## **Electrical Circuits CEE**

Claim: Answer the question

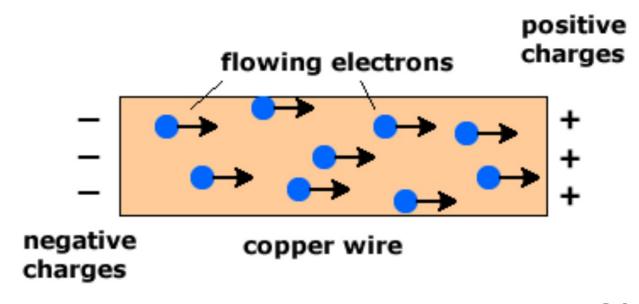
Evidence: Give examples of what worked and didn't work, draw pictures.



p. 81

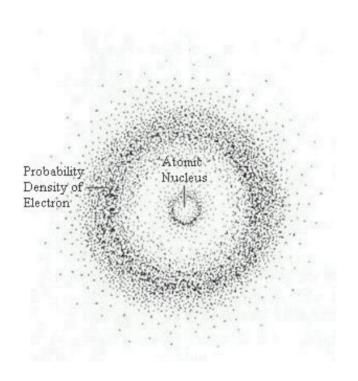
#### **Electricity**

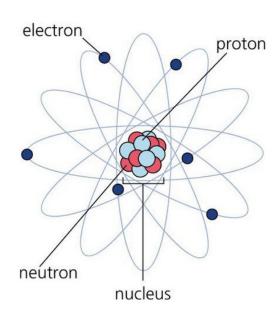
#### **Moving electrons**



#### **Electrons**

Negatively Charged part of an atom (subatomic particle) found moving around the outside of the nucleus of an atom.

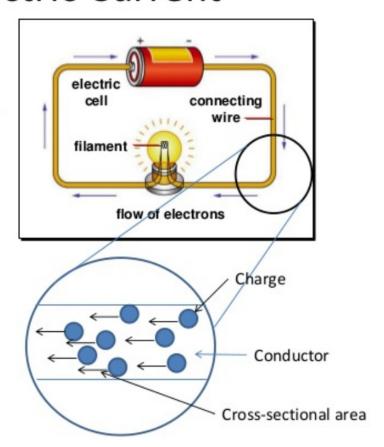




#### **Electric Current**

#### **Definition:**

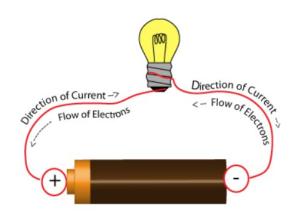
An electric current is the rate of flow of electric charges in a circuit.



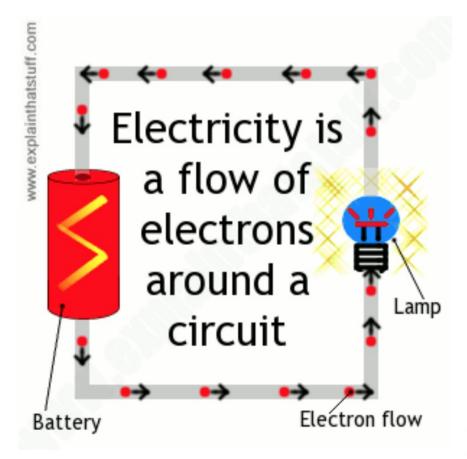
p. 81

WOD Circuit

An electric circuit is a path in which electrons from a voltage or current source flow.

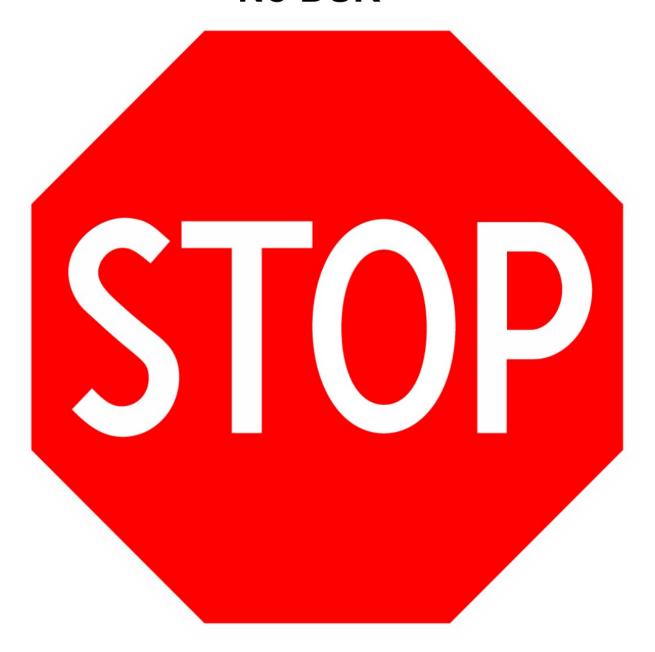


# Explanation: Using the words Electron, Circuit, and current write an explanation





#### No DSR



### Light the bulb challenge!

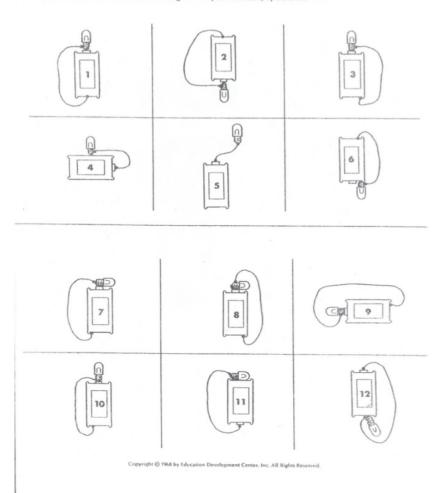
### with only....

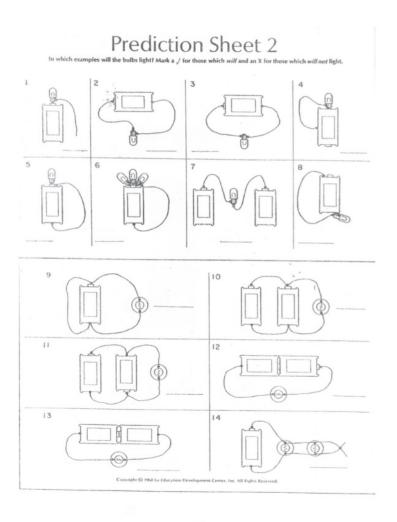
- one wire
- one light bulb
- one battery



#### Prediction Sheet 1

Will the bulb light? If you are not sure, try it and see!



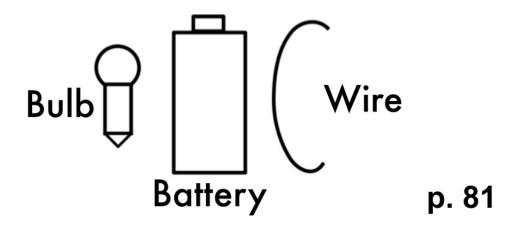


What are some of the rules for lighting a light bulb?

## **Electrical Circuits CEE**

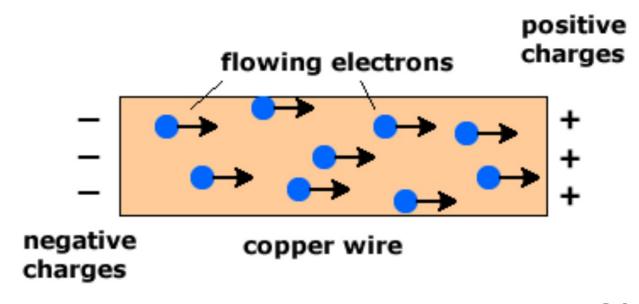
Claim: Answer the question

Evidence: Give examples of what worked and didn't work, draw pictures.



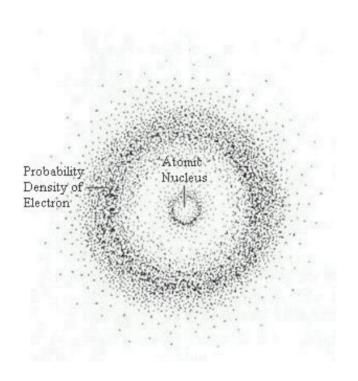
#### **Electricity**

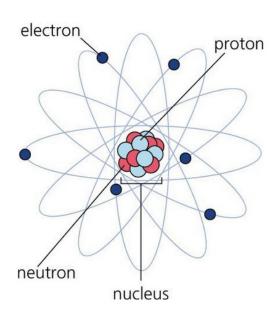
#### **Moving electrons**



#### **Electrons**

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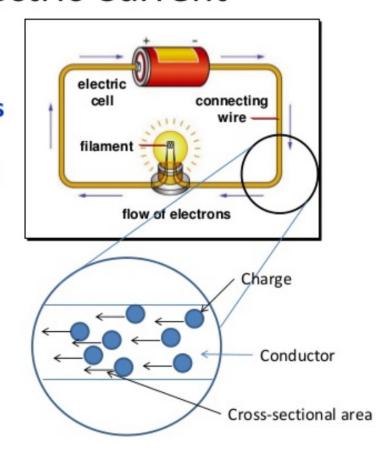




#### **Electric Current**

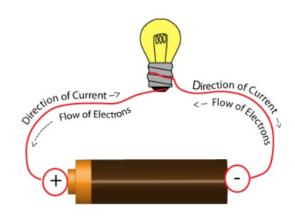
#### **Definition:**

An electric current is the rate of flow of electric charges in a circuit.

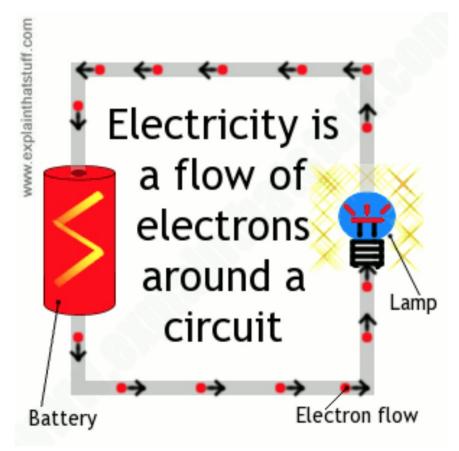


WOD Circuit

An electric circuit is a path in which electrons from a voltage or current source flow.



# Explanation: Using the words Electron, Circuit, and current write an explanation







#### **Exit Ticket**

#### **Charge and Circuits Practice**

V	am	e:				

- 1. A negative charged particle will attract a \_\_\_\_\_ particle.
- 2. A positive charged particle will repel a \_\_\_\_\_ particle.
- 3. There are 5 positive and eight negative charges in a box, what is the total charge of the box?
- 4. Draw in the charges need to make this box neutrally charged.

# of Negative: \_\_\_\_

# of Positive: \_\_\_\_

+ - - - +

5. You are walking on the carpet in socks, and reach for the door knob. Before you touch it you get a shock! Describe the process that caused the shock.