Unit 3 - Electricity

Chapter 8:Ohm's law describes the relationship of current, voltage, and resistance.

- Review
- Circuit Diagrams
- Assignment
- Challenge
- Homework

Sep 8-9:31 AM

Review

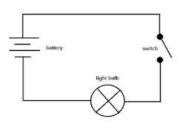
<u>Electric circuit</u>: A <u>complete pathway</u> that allows electrons to flow.



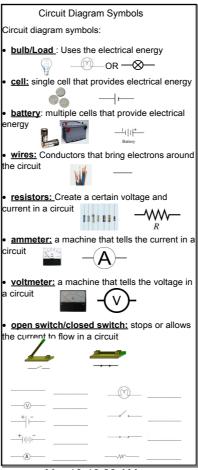
- 1) **source**: Where a form of energy is <u>converted</u> to electrical energy
- 2) <u>Electrical load</u>: Takes Electric energy and <u>converts</u> it into other forms of energy
- 3) **Control/switch**: Opens and closes the circuit -Turns circuit on and off
- 4) <u>Conductor</u>: Wires made of good conductors conducts electrons around the circuit

Circuit Diagram Symbols

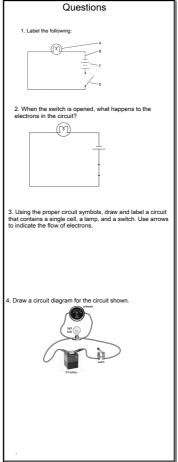
- Electricians often have to draw out a circuit
- Instead of drawing each part in detail, they use <u>simple symbols</u>



Mar 14-9:00 AM

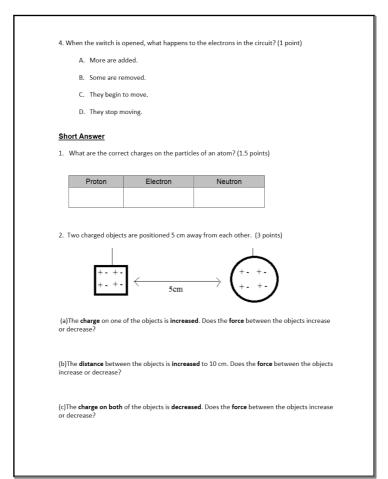


Mar 18-10:28 AM



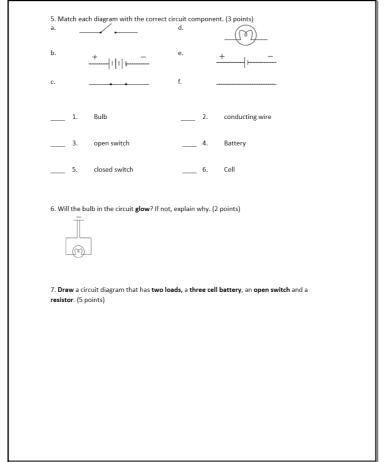
Mar 18-11:49 AM

/25.5 = ____% Grade 9 Science Unit 3 Chapter 7 and 8 Assignment 1. Which best describes static electricity? (1 point) A. charges that can be collected and held in one place B. charges that exist on a neutral object C. charges that power your computer D. charges that travel through a conductor 2. An object contains 5 million electrons. It is neutral. How can this be? (1 point) A. Electrons have no charge B. It also contains 5 million protons. C. The electrons are spread out evenly in the object. D. The object is an insulator. 3. In order for current to flow around the circuit, which condition must be satisfied? (1 point) A. An ammeter must be placed in the circuit. B. Both wires must be connected to the positive terminal of the battery. C. The switch must be in the closed position. D .The switch must be removed from the circuit.



Mar 21-2:18 PM

3. The diagram below	w represents a neutral solid object. (4 points)
	-+-+-
	+ - + - + - +
Use (–) to represent e	lectrons and (+) to represent protons to complete the diagrams.
(a) A positive rod is po and electrons?	ositioned near the original object. Draw what happens to the protons
	[+++++]
	+ + + + +
(b) A positive rod is to electrons?	ouched to the original object. What happens to the protons and
	+ + + - + + + + + + + - + - +
4. Name 2 of the thre	ee Laws of electric charges. (2 points)



Mar 21-2:19 PM



Using the proper circuit symbols, draw and label a circuit that contains:

a three cell battery, a lamp, and a closed switch. Use arrows to indicate the flow of electrons.

1206Attendance.xlsx