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Daniada					

Electricity and Magnetism Review

All sections marked with a are considered essential concepts and must be completed to receive full credit on WS.

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1. Voltage	A. 8 amps	1. Current	A. A path for electricity to flow. B. A material that allows electricity to		
2. Resistance	B. 8 volts	2. Voltage	flow.		
3. Power	C. 8 coulombs	3. Resistance	C. A material that resists electricity.		
4. Charge	D. 8 watts	4. Insulator	D. Slows down electricity		
5. Current	E. 8 ohms	5. Conductor	E. What pushes electricity in a circuit.		
What moves: elect	rons or protons?	6. Circuit	F. The flow of electrons thru wires.		
B) Did it gain or C) If you touch it or gain electro D) What will its o	rositive or negative? lose electrons? to ground, will it lose electrons to ground ons from ground? charge be after it is grounded? ges of the second objects?	A allows electricity or heat to pass through it. Electricity flows through paths called A circuit has no breaks in it, while an circuit has a break and stops the flow of electricity. An will not allow electricity to pass. Electricity is made up of flowing Like electric charges attract/repel. Opposite charges attract/repel. Draw a circuit of two batteries, a light bulb, a resistor, and a switch, all in series.			
What is electricity		switch, an in series.	A		
Will electrons flow	v between the two objects?				
A. (-3C) (-3C	B. 5C 0C -2C -6C				
Why does electrici	ty move?	You have two light bulbs and a battery in a circuit. If you add another battery, do the light bulbs get brighter or dimmer? Why?			
What is arcing? When and why does arcing occur?			ulbs and a battery in a circuit. If you add the light bulbs get brighter or dimmer?		
If a 12 v battery is current is flowing?	connected to a 24 Ω resistor, how much	Increases (I) Or Decreases (D)	Increasing resistance current Decreasing resistance current Increasing voltage current Decreasing voltage current		
How much voltage is needed to produce 2 amps through a 4 ohm light bulb?		How can you tell if two light bulbs are in parallel?			
		How can you tell if to	wo light bulbs are in series?		
If a light bulb in yo power does it use?	our house (120 V) draws 0.5 amps, how much	Is your house wired in series or in parallel? Why?			
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What is the change of voltage across a wire? Why can a bird sit on a wire and not be electrocuted?	What happens when you short circuit one light bulb in a two light bulb circuit? What happens if you short circuit a battery?			
Fill in the missing information on the following graphics. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Where do most of the electrons come from that run thru a circuit? Series or parallel? $\begin{array}{c} 6V \\ 6V \\ \end{array}$ $\begin{array}{c} B \\ I_1 = \end{array}$ $\begin{array}{c} C \\ I_2 = \end{array}$ $\begin{array}{c} D \\ I_3 = \end{array}$ $\begin{array}{c} R_3 = \\ 1\Omega \\ \end{array}$ $\begin{array}{c} R_3 = \\ \Omega \\ \end{array}$ $\begin{array}{c} R_3 = \\ \Omega \\ \end{array}$ $\begin{array}{c} V_{T} = \end{array}$ $\begin{array}{c} V_{T} = \end{array}$ $\begin{array}{c} V_{T} = \end{array}$ $\begin{array}{c} V_{T} = \end{array}$ $\begin{array}{c} I_{1} = \end{array}$ $\begin{array}{c} I_{1} = \end{array}$ Someone asks you how what a circuit is and how it works. Tell them.			
What will a magnet repel?	A house is wired with this type of circuit? Explain why.			
What does moving electricity cause?				
What do moving magnets cause?	What is a motor?			
What is an electromagnet?	How does it work?			
How do you strengthen an electromagnet?	What is a generator?			
	How does it work?			