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series circuit An electric circuit that has only one path for electron flow.

parallel circuit An electric circuit that has more than one path for current flow.

Series-Parallel Circuit A combination of series and parallel circuits.

Electric circuit A path for electrons to follow; the circuit may be open or closed, depending on the position of its switches.

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The amount of electricity flowing round a circuit, measured in amperes / amps using an ammeter.

Voltage The power pushing electricity round a circuit. More power means more electricity can flow.

Complete circuit When a power supply is

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joined with wires and a component making an unbroken loop. Amps A measurement of the amount of electricity flowing.

Series Circuit: study guides and answers on Quizlet

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Basic Circuits - 4.3b Open/Closed • A continuous flow of negative charges (electrons) creates an electric current. • The pathway taken by an electric current is a circuit. • Closed circuits allow the movement of electrical energy. • Open circuits prevent the movement of electrical energy. Draw Examples Open Circuit Closed Circuit

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Direct current always flows in the same direction in a circuit, whereas Alternating current flows in one direction then reverses itself and moves in the opposite direction. Batteries and other steady state devices produce DC (figure 1-6).

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Construct simple series and parallel circuits containing resistors and batteries and apply Ohm's law to solve typical problems demonstrating the effect of changing values of resistors and voltages. Use the principles of Ohm's and Kirchhoff's laws to design, construct, and analyze combination circuits using typical components (e.g., resistors, capacitors, diodes, sources of power).

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Essential Question: EQ 1: How do electric charges exert force on each other? EQ 2: How are series and parallel circuits similar and different in how they transfer energy?

8th Grade Science Electricity & Magnetism Unit Information

1.7 The power allowed in the circuit is $P = VI = 12 \times 2 = 24 \text{ W}$. When the switch is closed the power drawn by the circuit is $P = VI = 12(2,29) = 27,5 \text{ W}$ Therefore the fuse will melt (or blow).
Question 2
2.1 Heater: $P = VI$; $960 = 240 \times I$; $I = 4 \text{ A}$
TV: $P = VI$; $192 = 240 \times I$; $I = 0,8 \text{ A}$
2.2 $P = V^2/R$; $960 = (240)^2/R$; $R = 60 \Omega$

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Part B - Basic Electrical Formulas 8 1-13
Electrical Circuit 8 1-14 Electron Flow 9
1-15 Power Source 9 1-16 Conductance
and Resistance 9 1-17 Electrical Circuit
Values 10 1-18 Ohm's Law $I = E/R$ 10
1-19 Pie Circle Formula 12 1-20 Formula
Wheel 13 1-21 Power Changes With The
Square of The Voltage 15 1-22 Electric
Meters 15

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to as an electric circuit, and each component of the circuit is known as an element. An electric circuit is an interconnection of electrical elements. A simple electric circuit is shown in Fig. 1.1. It consists of three basic elements: a battery, a lamp, and connecting wires. Such a simple circuit can exist by itself; it has several applications, such as a flash-

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A class prepared some electrical circuits

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using battery, connecting wires, and three light bulbs. Which of these circuits can make the three bulbs light? answer choices

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CP PHYSICS Name: _____ ELECTRIC CIRCUITS REVIEW _____ period Answer the following questions on your own sheet of paper. 1. What is a series circuit? A circuit in which there is only one pathway for current to move. 2. What is a parallel circuit? A circuit in which there are two or more pathways for current to move.

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