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## **Lesson 4 Series Circuits Physics**

As mentioned in the previous section of Lesson 4, two or more electrical devices in a circuit can be connected by series connections or by parallel connections. When all the devices are connected using series connections, the circuit is

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referred to as a series circuit. In a series circuit, each device is connected in a manner such that there is only one pathway by which charge can traverse the external circuit.

## **Physics Tutorial: Series Circuits**

Lesson 4 will focus on the means by which two or more electrical devices can

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be connected to form an electric circuit. Our discussion will progress from simple circuits to mildly complex circuits. Former principles of electric potential difference, current and resistance will be applied to these complex circuits and the same mathematical formulas will be used to analyze them.

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**Physics Tutorial: Circuit Symbols  
and Circuit Diagrams**

As mentioned in a previous section of Lesson 4, two or more electrical devices in a circuit can be connected by series connections or by parallel connections. When all the devices are connected using parallel connections, the circuit is referred to as a parallel circuit. In a



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parallel circuit, each device is placed in its own separate branch.

## **Physics Tutorial: Parallel Circuits**

In Lesson 4, we will explore the effect of the type of connection upon the overall current and resistance of the circuit. A common physics lab activity involves constructing both types of circuits with

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bulbs connected in series and bulbs connected in parallel. A comparison and contrast is made between the two circuits.

## **Physics Tutorial: Two Types of Connections**

Series Circuits. Read from Lesson 4 of the Current Electricity chapter at The

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Physics Classroom: <http://www.physicsclassroom.com/Class/circuits/u9l4a.html> <http://www.physicsclassroom.com/Class/circuits/u9l4b.html>. MOP Connection: Electric Circuits: sublevels 7, 9 and 11.  
1.

## **Lesson 4 Current Electricity The Physics Classroom**

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Regents Physics - Parallel Circuits.  
Another basic circuit type is the parallel circuit, in which there is more than one current path. To analyze resistors in a series circuit, we found an equivalent resistance. We'll follow the same strategy in analyzing resistors in parallel.

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**Regents Physics Parallel Circuits**

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Terms ...



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## **Ranger\_Sparky | Quizlet**

In this lesson, we'll look at both types of circuits and see how the voltage, current, and resistance are affected by installing additional loads. 18. Series Circuits: Definition & Concepts

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Created by. Ranger\_Sparky ... What is  
the formula for the total voltage applied  
to a series circuit when using two series-  
opposing power sources? 5. b.  $E_t = E_1 - E_2$

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In this video, we start the electricity topic. We look at what's meant by a s...

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## **Lesson 4 Series Circuits Physics Classroom Answers**

1. A circuit in which all charge follows a single pathway is a series circuit; a

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circuit in which charge follows multiple pathways is a parallel circuit. a. series, parallel b. parallel, series 2. For a parallel circuit: as the number of resistors being used within the same parallel circuit increases,

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SLU Physics Series & Parallel Circuits

Department of Physics Revised:

1/10/2020 1 of 4 Canton, NY 13617

Series & Parallel Circuits Spring 2020

Introduction The purpose of this experiment is to observe the behavior of current & voltage for two resistors connected in series and in parallel, and to measure the equivalent resistance of

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these pairings.

## **ST. LAWRENCE UNIVERSITY Physics 104**

Series Circuits As mentioned in the previous section of Lesson 4, two or more electrical devices in a circuit can be connected by series connections or by parallel connections. When all the

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devices...

## **Series Circuit Support Page - Conceptual Physics 8**

A series circuit is a circuit in which two components share a common node and the same current flows through them. However, in a parallel circuit, components share two common nodes.

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In this article, let us look at more differences between series and parallel circuit. More on Electric Circuits

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