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## **Circuits Phet Lab Answers**

Experiment with an electronics kit! Build

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circuits with batteries, resistors, light bulbs, fuses, and switches. Determine if everyday objects are conductors or insulators, and take measurements with an ammeter and voltmeter. View the circuit as a schematic diagram, or switch to a lifelike view.

## **Circuit Construction Kit: DC - Series**

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## **Circuit - PhET**

DC Circuits u2014 Colorado PhET Applet  
Lab - J3science.com DC Circuits u2014  
Colorado PhET Applet Lab Go to: ...  
Answers the following questions and  
check your predictions using the circuit  
you constructed. a. [Filename:  
DC\_Circuits-PhET\_Lab.pdf] - Read File  
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## **Phet Circuits Answers - Free PDF File Sharing**

Lab 5 Series and Parallel Circuit (Using PhET Simulation Tool) Objective 1. Learn to build up series circuit and a parallel circuit with three resistors. 2. Use PhET interactive simulation tool (Circuit Construction Kit AC Prototype) to build

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the circuits and Verify Ohm's Law Theory  
The relations for two resistors in series  
and parallel circuits are the following:  
Series Circuit Parallel Circuit  
1 1  $R_{total} = R + R_2$   
(1) + (4)  $R_{total} = \frac{R R_2}{R + R_2}$   
12 (2)  $I_{total} = \frac{1}{\frac{1}{R} + \frac{1}{R_2}}$   
(5)  $V = V_1 + V_2$   
(3) ...

## Lab 5 Series And Parallel Circuit

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## **(Using PhET Simu ...**

PHET Circuits Lab READ CAREFULLY!!  
Start by getting together a couple of sheets of paper and something to write with ... colored pencils might be nice if you want to give your drawings some flair.

**READ CAREFULLY!!**



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Circuits phet lab answers in Description  
CCNA Certification Toolkit CCNA  
certification toolkit features a web-based  
interface with feature selector for  
courseware, lab simulation, practice  
tests and certification tools.

**Circuits phet lab answers trend:  
PhET, Circuit ...**

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DC Circuit Lab: Description This lab is good for review of the concepts learned about circuits. Topics covered are Ohm's law, resistance, parallel & series configurations, combination circuits, switches, shorts, battery configurations. This has been used successfully with AP Physics 1 and conceptual physics at the high school level.

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## **DC Circuit Lab - PhET Contribution**

The aim of this activity is to use the Electric Circuits simulation above (by Phet) to investigate the properties of circuits and to discover some circuit 'rules' that always apply to circuits. You are going to take measurements of current and potential difference in series

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and parallel circuits. Click on 'Lab' to get started. Series ...

## **Electric Circuits simulation (Phet). Electric circuits ...**

By converting our sims to HTML5, we make them seamlessly available across platforms and devices. Whether you have laptops, iPads, chromebooks, or

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BYOD, your favorite PhET sims are always right at your fingertips. Become part of our mission today, and transform the learning experiences of students everywhere!

## **Electricity, Magnets & Circuits - PhET Interactive Simulations**

Circuit Construction Kit: DC - Virtual Lab

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## **Circuit Construction Kit: DC - Virtual Lab**

Do you like Circuit Construction Kit: DC, but want to use only in-line ammeters? This is the sim for you! Experiment with an electronics kit. Build circuits with batteries, resistors, light bulbs, fuses, and switches. Determine if everyday

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objects are conductors or insulators, and take measurements with a lifelike ammeter and voltmeter. View the circuit as a schematic diagram, or switch to a ...

### **Circuit Construction Kit: DC - Virtual Lab - Series ...**

DC CIRCUIT SIMULATION WORKSHEET

Answer the following questions before

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starting the PhET simulation. Check your answers by completing the PhET simulation. 1. Fill in the table for the circuit. Show your work and then check your answer using the PhET simulation.

780 $\Omega$	1.5 k $\Omega$	3.3 k $\Omega$	14 V	R1	R2	R3	R1
R2	R3	Total	V	I	R	P	Show your work:

$I = V/R_{total}$ .



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## **DC CIRCUIT SIMULATION WORKSHEET Answer the following**

...

When analyzing electric circuits with more than one resistor the rules for combining resistances in series and parallel and finding their equivalent resistance  $R_{eq}$  are very useful: - Series circuit Parallel circui  $R_{eq} = R_1 + R_2 +$

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$R_3$   $R_{00}$   $R$   $R_2 + R$  Then the total current through the circuit in either case is given by:  $I = \frac{V}{R_{eq}}$  Page 1 Kirchhoff's Rules  
These rules are very useful when analyzing circuits that contain more than one electromotive force, aka emf (battery) or complicated networks of ...

**<https://phet.colorado.edu/sims/html>**

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## **/circuit-constr ...**

4. RC Circuits 4.3 Key Concepts As always, you can find a summary online at HyperPhysics2. Look for keywords: electricity and magnetism (capacitor, charging of a capacitor) To play with building circuits with capacitors, or to get a head start on trying out the circuits for today, run the computer

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simulation at <http://phet.colorado.edu/en/simulation/circuits>:

## **RC Circuits - Michigan State University**

ALL STUDENT ANSWERS IN RED Visit the site below to construct and compare series and parallel circuits.-dc\_en.html  
Series Circuits Drag the following items onto the work area. 1 battery, 1 light, 1

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switch, 1 ammeter, and enough wire to connect these in a series circuit.

Construct a series circuit. Close the switch. How many amps of current are flowing through the circuit? \_\_\_\_\_.90  
\_\_\_\_\_ amps ...

**MAGGIE\_CRABB\_-\_Series\_Circuit\_Phet\_Lab - ALL STUDENT ...**

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Ammeters measure current and have to become PART of the circuit, so you need to disconnect the circuit in order to place the ammeter in it. To disconnect, you need to right click on the yellow circle on the end of the wire and select “split junction”. That will separate the wires. Drag the ammeter from the box to place it IN the circuit and

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## **Series Circuit - Easy Peasy All-in-One High School**

Briefly describe why this is the case  
Prediction Questions Consider the pictures of each of these circuits, then answer the questions below Series Circuit Parallel Circuit Complex Circuit 1. From the circuits above, predict and

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rank the brightness of the bulbs (from brightest to dimmest). Some may be equal.

## **Solved: This Lab Uses The Circuit Construction Kit DC Simu ...**

3. Run the simulation, and you will see a page like that shown in Fig.7. You would not set up the circuit, For assistance in



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setting up the circuit, see the manual:  
00PhET Simulation Tool Instructions for  
Electric Circuits Labs. 5. This experiment  
requires you to measure the voltage as  
a function of time.

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