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Change the voltage and see charges built up on the plates.  
Shows the electric field in the capacitor.

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Measure voltage and electric field.

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## **Capacitor Intro Lab Phet Answers**

Capacitors Open the PhET Simulation: NOTE: TYPE ANSWERS BELOW IN RED OBJECTIVES: • (Capacitor connected to battery): Study the effect of changing the voltage across a capacitor, its plates

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area and separation distance on the capacitance, charges on plates and electric field between plates. • (Charged capacitor disconnected from battery): Study the effect of changing the plates area and ...

## **Capacitor\_Lab.pdf - Capacitors Open the PhET Simulation ...**

1 Capacitors  
Capacitors In this  
experiment, you will

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investigate fundamental properties of capacitors. A capacitor is a device that stores charge.

## PROCEDURE 1.

Properties of a capacitor. In this experiment you will use a Java simulation to investigate fundamental properties of a parallel plate capacitor. Find the simulation on the PhET site:



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**LAB Capacitors PhET  
- Boston University  
Physics**

In the second part of this lab you will be seeing capacitors are affected by being connect in series and parallel. Basic Characteristics of a Capacitor Open the capacitor lab:

**Solved: Capacitor  
Lab: [Http://phet.colorado.edu/en/simulat](http://phet.colorado.edu/en/simulat)**

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Capacitor Lab: Basics -  
PhET Interactive  
Simulations

## **Capacitor Lab: Basics - PhET Interactive Simulations**

Explore how a

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capacitor works!

Change the size of the plates and the distance between them. Change the voltage and see charges build up on the plates. View the electric field, and measure the voltage. Connect a charged capacitor to a light bulb and observe a discharging RC circuit.

**Capacitor Lab:  
Basics - Parallel  
Plate Capacitor ... -**

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**PhET**

Homework, Lab:

Answers Included No:

Language English:

Keywords capacitor,  
inquiry, phet:

Simulation(s) Capacitor

Lab: Author(s) Trish

Loeblein: Contact Email  
patricia.loeblein@color

ado.edu: School /

Organization PhET:

Date submitted 8/7/11:

Date updated 8/7/11:

About ...

**Capacitor Lab:**

*Page 14/23*

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## **Inquiry into Capacitor Design - PhET ...**

In the second part of this lab you will be seeing capacitors are affected by being connect in series and parallel. Basic Characteristics of a Capacitor Open the capacitor lab: Set the plates to the minimum area ( $100.0 \text{ mm}^2$ ), maximum separation ( $10.0 \text{ mm}$ ) and maximum positive

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battery voltage (1.5 V)  
to begin.

**Solved: Capacitor  
Lab: \*\*\*\*\*I NEED ALL  
THESE QUESTIONS  
ANS ...**

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Answer to Open the “Capacitor Lab” applet here: <https://phet.colorado.edu/en/simulation/legacy/capacitor-lab>  
Check the boxes ...

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**Solved: Open The  
"Capacitor Lab"  
Applet Here:  
[Https://phet ...](https://phet...)**

Using the charge and capacitance of each capacitor, calculate the voltage across each capacitor:  $V_{-}$   $V_{-}$   $V_{-}$   $V_{i}+V_{+}+V_{+}$  - Do the voltages add up to 1.5 V? 14. Check the "Voltmeter" box. Connect the two ends of the voltmeter as shown to measure the voltage across each

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capacitor med \*\*\* V  
..... - Ved + V + Ved -  
15.

## **+ 1-Capacitors In Series 1. Go To [Http://phet Colo ...](http://phet.colorado.edu)**

Today we will be exploring the energy stored in a capacitor, behavior of capacitors with and without dielectrics, and the capacitor connection (series and parallel). You will complete the virtual lab using the

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Capacitor Lab from Phet, data analysis software (Excel) and this document. First part: Energy stored in the capacitor versus Voltage

**I REALLY NEED HELP PLEASE!!!! Construct The Follow ...**

Capacitors Open the PhET Simulation: Complete the data tables and answer the questions below.

Submit this document

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as your lab report.

**OBJECTIVES:** (Capacitor connected to battery):  
Study the effect of changing the voltage across a capacitor, its plates area and separation distance on the capacitance, charges on plates and electric field between plates. (Charged capacitor disconnected from ...

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