

# Lab 9 Capacitors

## PHYS 1110L Conceptual Physics Lab

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Results: \_\_\_\_\_ (90 pts max)

### OBJECTIVE

- To explore how a capacitor works.

Google the "PhET Capacitor Lab".

### PART I: CAPACITOR

- Go to the tab "Dielectric".
- Increase the plate area to  $400.0 \text{ mm}^2$ .
- Make sure the offset of the dielectric is  $0.0 \text{ mm}$ .
- Make sure the distance separation between plates is  $10.0 \text{ mm}$ .
- Check mark the views: Plate charges and Electric field lines
- Check mark the meters: Capacitance, Plate charge, Stored Energy, and Electric Field Detector

- Draw the distribution of charges and electric field lines when:

BATTERY IS TURNED ON TO  $+1.5 \text{ V}$ .

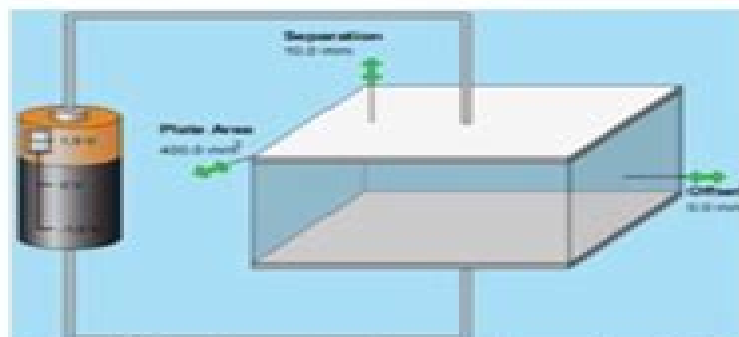


Figure 1. Capacitor setup using a battery with a  $+1.5 \text{ V}$ .

BATTERY IS TURNED ON TO  $-1.5 \text{ V}$ .

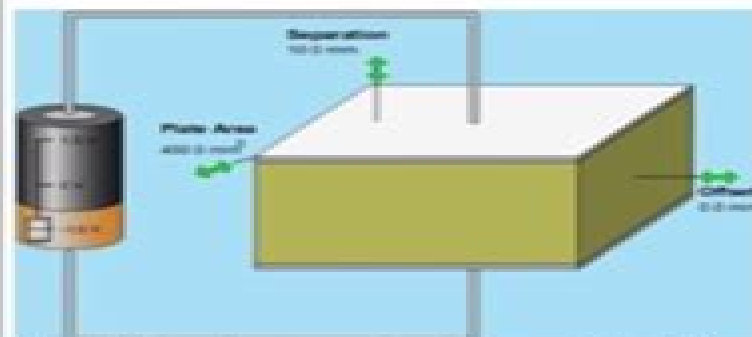


Figure 2. Capacitor setup using a battery with a  $-1.5 \text{ V}$ .

### Data Table 1

READINGS FROM THE METERS	
Capacitance	$C =$
Electric charge	$q =$
Electric Potential Energy	$\Delta U_e =$
Electric Field	$E =$

### Data Table 2

READINGS FROM THE METERS	
Capacitance	$C =$
Electric charge	$q =$
Electric Potential Energy	$\Delta U_e =$
Electric Field	$E =$

- How does the measurements from the meters change, when the electric potential difference of the battery is  $+1.5 \text{ V}$  and  $-1.5 \text{ V}$ ?

# Conceptual Physics Lab Shine A Light Answers

**S Ashworth**



## **Conceptual Physics Lab Shine A Light Answers:**

**Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed** Paul G. Hewitt, 1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt's text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics *Modern Physics* Gary N. Felder, Kenny M. Felder, 2022-09-15 An accessible and pedagogically rich Modern Physics textbook with step by step explanations and extensive resources to support active learning Princeton Alumni Weekly, 2004 **Conceptual Physics Problem Solving Exercises in Physics** Se Jennifer Bond Hickman, 1998-04-03 From Atoms to Galaxies Sadri Hassani, 2011-06-13 College students in the United States are becoming increasingly incapable of differentiating between proven facts delivered by scientific inquiry and the speculations of pseudoscience In an effort to help stem this disturbing trend From Atoms to Galaxies A Conceptual Physics Approach to Scientific Awareness teaches heightened scientific acuity as it educates students about the physical world and gives them answers to questions large and small Written by Sadri Hassani the author of several mathematical physics textbooks this work covers the essentials of modern physics in a way that is as thorough as it is compelling and accessible Some of you might want to know How did Galileo come to think about the first law of motion Did Newton actually discover gravity by way of an apple and an accident Or maybe you have mulled over Is it possible for Santa Claus to deliver all his toys Is it possible to prove that Elvis does not visit Graceland every midnight Or perhaps you've even wondered If ancient Taoism really parallels modern physics If psychoanalysis can actually be called a science How it is that some philosophies of science may imply that a 650 year old woman can give birth to a child No Advanced Mathematics Required A primary textbook for undergraduate students not majoring in physics From Atoms to Galaxies examines physical laws and their consequences from a conceptual perspective that requires no advanced mathematics It explains quantum physics relativity nuclear and particle physics gauge theory quantum field theory quarks and leptons and cosmology Encouraging students to subscribe to proven causation rather than dramatic speculation the book Defines the often obscured difference between science and technology discussing how this confusion taints both common culture and academic rigor Explores the various philosophies of science demonstrating how errors in our understanding of scientific principles can adversely impact scientific awareness Exposes how pseudoscience and New Age mysticism advance unproven conjectures as dangerous alternatives to proven science Based on courses taught by the author for over 15 years this textbook has been developed to

raise the scientific awareness of the untrained reader who lacks a technical or mathematical background To accomplish this the book lays the foundation of the laws that govern our universe in a nontechnical way emphasizing topics that excite the mind namely those taken from modern physics and exposing the abuses made of them by the New Age gurus and other mystagogues It outlines the methods developed by physicists for the scientific investigation of nature and contrasts them with those developed by the outsiders who claim to be the owners of scientific methodology Each chapter includes essays which use the material developed in that chapter to debunk misconceptions clarify the nature of science and explore the history of physics as it relates to the development of ideas Noting the damage incurred by confusing science and technology the book strives to help the reader to emphatically demarcate the two while clearly demonstrating that science is the only element capable of advancing technology Journey into Philosophy Stan Baronett, 2016-10-14 The overriding rationale behind this book is a desire to enrich the lives of college students by introducing them to the practice of philosophical thought in an accessible and engaging manner The text has over one hundred classical and contemporary readings that facilitate studying each philosophical issue from a variety of perspectives giving instructors the opportunity to choose a set of readings that matches the individual needs of each class It includes many selections by philosophers whose works are often ignored or underrepresented in other introductory texts The initial reading The Role of Philosophy is a relevant clear and absorbing introduction to the discipline of philosophy It uses everyday life situations to give students a solid foothold before they journey into specific philosophical topics In addition every section of the book has its own special introduction that connects each topic to students personal lives The surrounding narrative is designed to be conversational and comprehensible Special features include a section on the role of logic and writing a philosophy paper two useful tools for approaching and analyzing philosophical writing for students who are new to philosophy The book is accompanied by a companion website [www.routledge.com/cw/Baronett](http://www.routledge.com/cw/Baronett) with many helpful features including for students review questions for all readings in the book videos and 66 related entries taken from the student friendly Routledge Encyclopedia of Philosophy and for instructors 2 500 questions and answers Contemporary College Physics Edwin R. Jones, Richard L. Childers, 1990

**Essentials of Modern Physics** Virgilio Acosta, Clyde L. Cowan, Billie J. Graham, 1973 *Fundamentals of Physics, A Student's Companion E-Book to Accompany Fundamentals of Physics, Enhanced Problems Version* David Halliday, Robert Resnick, Jearl Walker, 2003 A text for calculus based physics courses introducing fundamental physics concepts and featuring exercises designed to help students apply conceptual understanding to quantitative problem solving with chapter puzzlers checkpoints and reviews and summaries *Fundamentals of Physics, Chapters 1 - 21* David Halliday, Robert Resnick, Jearl Walker, 2000-05-02 This is a supplement to the text Fundamentals of Physics 6th Ed This supplement contains additional sample problems checkpoint style questions organizing questions discussion questions and new exercises and problems

**Fundamentals of Physics, Chapters 22 - 45** David Halliday, Robert Resnick, Jearl Walker, 2001 The latest edition of

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