

# PhET Lab: Ohm's Law & Series and Parallel Circuits

## Objectives:

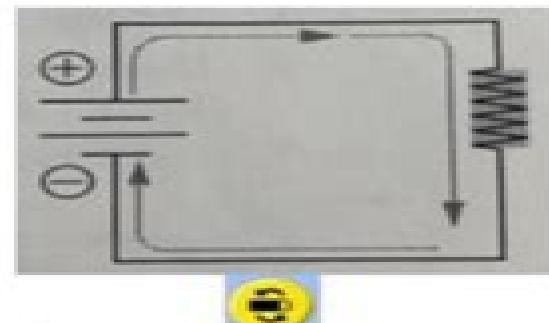
1. Determine how to calculate the total resistance in a series circuit.
2. Build and analyze parallel circuits.
3. Determine how total current and branch currents are related in parallel circuits.

Google "PhET Circuit Construction Kit: DC Virtual Lab" and start the simulation.

## Part I: Series Circuits

### Procedure:

1. Build a circuit that has TWO small batteries and ONE resistor (R1), like in the picture to the right.  
*Make sure the current is flowing clockwise. If it is flowing counterclockwise, click on each battery and flip it around using the yellow battery button on the bottom of the page.*
2. Record the battery voltage in the data table.
3. Set the resistance of the resistor to a resistance between 1 and 10 ohms. Record the current in the data table.
4. Add a second resistor (R2) ABOVE the first resistor and set it to a resistance between 1 and 10 ohms. Record the current in the data table.
5. Add a third resistor (R3) to the circuit ABOVE the first two resistors and set it to a resistance between 1 and 10 ohms. Record the current in the data table.
6. Using Ohm's Law (in the form  $R = \frac{V}{I}$ ), calculate total resistance in each circuit, using the battery voltage and current for each circuit.



Combined voltage of the two batteries = \_\_\_\_\_

Resistance of R1 = \_\_\_\_\_ Resistance of R2 = \_\_\_\_\_ Resistance of R3 = \_\_\_\_\_

	Circuit with R1	Circuit with R1 and R2	Circuit with R1, R2 and R3
Current in amps			
Resistance in ohms (calculated)			

Study your calculated resistances in Table 2. What is the rule for calculating total resistance in a series circuit, from individual resistances? (3 pts)

# Answerkey Phet Simulation

**RS Peters**

## **Answerkey Phet Simulation:**

**Improving K-12 STEM Education Outcomes through Technological Integration** Urban, Michael J., Falvo, David A., 2015-11-12 The application of technology in classroom settings has equipped educators with innovative tools and techniques for effective teaching practice Integrating digital technologies at the elementary and secondary levels helps to enrich the students learning experience and maximize competency in the areas of science technology engineering and mathematics Improving K 12 STEM Education Outcomes through Technological Integration focuses on current research surrounding the effectiveness performance and benefits of incorporating various technological tools within science technology engineering and mathematics classrooms Focusing on evidence based approaches and current educational innovations this book is an essential reference source for teachers teacher educators and professionals interested in how emerging technologies are benefiting teaching and or learning efficacy

## **Representation, Inclusion, and Innovation**

Clayton Lewis, 2022-05-31 A representation is a thing that can be interpreted as providing information about something a map or a graph for example This book is about the expanding world of computational representations representations that use the power of computation to provide information in new forms and in new ways Unlike printed maps or graphs computational representations can be dynamic and even interactive so that what is represented and how can be shaped by user actions Exploring these new possibilities can be guided by an emerging theory of representation that clarifies what characteristics representations must have to express the meaning being represented and to enable users to discern that meaning easily and accurately The theory also shows the way to inclusive design for example using sounds to represent information commonly presented visually so that people who cannot see can understand what is being presented Because representations must be shaped by the abilities of their users and by the nature of the meanings they convey creating them requires perspectives from multiple disciplines including psychology as well as computer science and the sciences appropriate to the content being expressed The book presents a series of explorations of this large and complicated space as invitations to further study and to innovation

## **Creativity in the Classroom** Alane Jordan Starko, 2013-10-01 Creativity in

the Classroom Fifth Edition helps teachers apply up to date research on creativity to their everyday classroom practice Early chapters explore theories of creativity and talent development while later chapters focus on practice providing plentiful real world applications from strategies designed to teach creative thinking to guidelines for teaching core content in ways that support student creativity Attention is also given to classroom organization motivation and assessment New to this edition Common Core State Standards Updated coverage includes guidelines for teaching for creativity within a culture of educational standards Technology Each chapter now includes tips for teaching with technology in ways that support creativity Assessment A new full chapter on assessment provides strategies for assessing creativity and ideas for classroom assessment that support creativity Creativity in the Classroom Models New graphics highlight the relationships among

creativity learning for understanding and motivation The 5th edition of this well loved text continues in the tradition of its predecessors providing both theoretical and practical material that will be useful to teachers for years to come **College Physics Textbook Equity Edition Volume 2 of 3: Chapters 13 - 24** An OER from Textbook Equity,2016-02-11 This text is intended for one year introductory courses requiring algebra and some trigonometry but no calculus College Physics is organized such that topics are introduced conceptually with a steady progression to precise definitions and analytical applications The analytical aspect problem solving is tied back to the conceptual before moving on to another topic Each introductory chapter for example opens with an engaging photograph relevant to the subject of the chapter and interesting applications that are easy for most students to visualize For manageability the original text is available in three volumes Original text published by Openstax College Rice University [www.textbookequity.org](http://www.textbookequity.org) *College Physics Textbook Equity Edition Volume 3 of 3: Chapters 25 - 34* An OER from Textbook Equity,2014-01-14 This is volume 3 of 3 black and white of College Physics originally published under a CC BY license by Openstax College a unit of Rice University Links to the free PDF s of all three volumes and the full volume are at <http://textbookequity.org> This text is intended for one year introductory courses requiring algebra and some trigonometry but no calculus College Physics is organized such that topics are introduced conceptually with a steady progression to precise definitions and analytical applications The analytical aspect problem solving is tied back to the conceptual before moving on to another topic Each introductory chapter for example opens with an engaging photograph relevant to the subject of the chapter and interesting applications that are easy for most students to visualize

*Proceedings of the 9th International Conference on Computer Supported Collaborative Learning*

Claire O'Malley,2009 **Jacaranda Science Quest 8 Victorian Curriculum, 3e learnON & Print** Graeme Lofts, Merrin J. Evergreen,2025-11-03 JACARANDA SCIENCE QUEST 8 VICTORIAN CURRICULUM THIRD EDITION Developed by expert teachers every lesson is carefully designed to support learning online offline in class and at home Supporting students Whether students need a challenge or a helping hand they have the tools to help them take the next step in class and at home jacTUTOR every student can have the help of a personal AI tutor when they get stuck in class or at home This purpose built tool sits safely within your Jacaranda resource so guidance will always be specific to that lesson question and curriculum Concepts brought to life with rich multimedia Easy navigation Differentiated pathways Immediate corrective feedback Sample responses for every question Personalised pathways that also allow for social learning Opportunities for remediation extension and acceleration Tracking progress and growth Supporting teachers Teachers are empowered to teach their class their way with flexible resources perfect for teaching and learning Hundreds of ready made and customisable lessons Comprehensive Syllabus coverage and planning documentation A variety of learning activities Marking tracking monitoring and reporting capabilities Ability to add own materials Supporting schools Schools are set up for success with our unmatched customer service training and solutions tailored to you Learning Management System LMS integration Online class set up

Dedicated customer specialists Tools to manage classes Bookseller app integration Complimentary resources for teachers Curriculum planning Data insights Flexible subscription services at unbeatable prices [Announcer](#),2004 **Jacaranda Science 8 for Western Australia, 5 learnON and Print** Jacaranda,2025-11-24 [2008 Physics Education Research Conference](#) Charles Henderson,Mel Sabella,Leon Hsu,2008-11-21 The 2008 Physics Education Research Conference brought together researchers studying a wide variety of topics in physics education The conference theme was Physics Education Research with Diverse Student Populations Researchers specializing in diversity issues were invited to help establish a dialog and spur discussion about how the results from this work can inform the physics education research community The organizers encouraged physics education researchers who are using research based instructional materials with non traditional students at either the pre college level or the college level to share their experiences as instructors and researchers in these classes **The Science Teacher**,2009 **5 Steps to a 5: AP Physics 2: Algebra-Based 2024**

Christopher Bruhn,2023-07-31 AP Teachers 1 Choice Ready to succeed in your AP course and ace your exam Our 5 Steps to a 5 guides explain the tough stuff offer tons of practice and explanations and help you make the most efficient use of your study time 5 Steps to a 5 AP Physics 2 Algebra Based is more than a review guide it s a system that has helped thousands of students walk into test day feeling prepared and confident Everything You Need for a 5 3 full length practice tests that align with the latest College Board requirements Hundreds of practice exercises with answer explanations Comprehensive overview of all test topics Proven strategies from seasoned AP educators Study on the Go All instructional content in digital format available online and on mobile devices Interactive practice tests with answer explanations A self guided personalized study plan with daily goals powerful analytics flashcards games and more A Great In class Supplement 5 Steps is an ideal companion to your main AP text Includes an AP Physics 2 Algebra Based Teacher s Manual that offers excellent guidance to educators for better use of the 5 Steps resources *Computers in Your Future* Marilyn Wertheimer Meyer,Roberta L.

Baber,Bryan Pfaffenberger,1999 For courses in Computer Concepts Introduction to Computers this introduction to computers is noted for its lucid explanations of computing concepts practical applications of technology theory and emphasis on the historical and societal impacts of technological innovations It features integrated coverage of management information systems networking email and the Internet NEW New and updated coverage of key topics e g intranets and extranets Linux DVD and JINI research using the Web Web page creation email Windows 98 and Windows CE integrated applications suites such as Office 97 special purpose software multimedia virtual reality emerging technologies such as AI robotics neural nets and intelligent agents security ethics ergonomics and repetitive stress injuries structured analysis and design tools careers and certification and MIS NEW Companion Web site [www.prenhall.com/meyer](http://www.prenhall.com/meyer) NEW New improved pedagogical tools Look It Up annotated references and web site listings Sidebars 85% new 15% updated Hot Links margin notes that encourage students to learn more about a topic by using Web resources NEW Think About It questions Asks

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Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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