PhET Circuit Lab

Pre-lab questions:

- 1. Draw the symbols for each of the following:
 - a. Wrine:
 - b. Resistor: A c. Battery: 1
- d. Light Bulb:

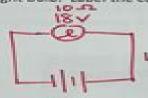
- 2. Define each of the following:
 - a circuit: a closed loop where electricity flows
 - b. Voltage: the electric potential energy
 - c. Current: the Flow of electrons
 - d. Resistance: Slowing the current in a circuit

the lab

Datas

CIRCUIT 1: Series circuit with 2 batteries and 1 light bulb

Draw your circuit using symbols. Label the bulb with a resistance of 10. Label the voltage across batteries and the light bulb. Label the current on each part of the wire.



1.8 ourreps

THE W

Current: 1.8 amps

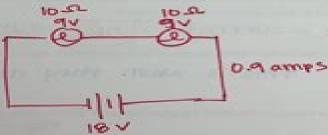
Total Voltage: 19 VDVTS

Total Resistance: 10_02 Brightness of Bulbs (scale of 1 to 3): 1 (Brightest)

Calculations:

CIRCUIT 2: Series circuit with 2 batteries and 2 light bulbs

Draw your circuit using symbols. Label each light bulb with a resistance of 10. Label the voltage across batteries and each light bulb. Label the current on each part of the wine.



Current: 0.9 Total Voltage: 195 Total Resistance: 20 Brightness of Bulbs (scale of 1 to 3): 2 Calculations:

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RC Schank

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<u>Principles of Electric Circuits</u> Thomas L. Floyd,2000 CD ROM includes 100 EWB circuits for the textbook s troubleshooting and analysis problems demonstration version of EWB verson 5 X software and a full student version of EWB verson 5 X available for purchase Preface

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Table of Contents Series And Parallel Circuits Basics Phet Answers

- 1. Understanding the eBook Series And Parallel Circuits Basics Phet Answers
 - The Rise of Digital Reading Series And Parallel Circuits Basics Phet Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Series And Parallel Circuits Basics Phet Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Series And Parallel Circuits Basics Phet Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Series And Parallel Circuits Basics Phet Answers
 - Personalized Recommendations
 - Series And Parallel Circuits Basics Phet Answers User Reviews and Ratings
 - Series And Parallel Circuits Basics Phet Answers and Bestseller Lists
- 5. Accessing Series And Parallel Circuits Basics Phet Answers Free and Paid eBooks
 - Series And Parallel Circuits Basics Phet Answers Public Domain eBooks
 - Series And Parallel Circuits Basics Phet Answers eBook Subscription Services
 - Series And Parallel Circuits Basics Phet Answers Budget-Friendly Options
- 6. Navigating Series And Parallel Circuits Basics Phet Answers eBook Formats

- o ePub, PDF, MOBI, and More
- Series And Parallel Circuits Basics Phet Answers Compatibility with Devices
- Series And Parallel Circuits Basics Phet Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Series And Parallel Circuits Basics Phet Answers
 - Highlighting and Note-Taking Series And Parallel Circuits Basics Phet Answers
 - Interactive Elements Series And Parallel Circuits Basics Phet Answers
- 8. Staying Engaged with Series And Parallel Circuits Basics Phet Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Series And Parallel Circuits Basics Phet Answers
- 9. Balancing eBooks and Physical Books Series And Parallel Circuits Basics Phet Answers
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Series And Parallel Circuits Basics Phet Answers
- 10. Overcoming Reading Challenges
 - $\circ\,$ Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Series And Parallel Circuits Basics Phet Answers
 - Setting Reading Goals Series And Parallel Circuits Basics Phet Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Series And Parallel Circuits Basics Phet Answers
 - Fact-Checking eBook Content of Series And Parallel Circuits Basics Phet Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
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