

The total resistance in a series circuit is equal to the sum of the individual resistances of the load (bulb). Current is the same in every part of the circuit. The current is equal to the voltage divided by the total resistance. As more load (bulb) is added in a series circuit, the smaller the current as reflected by the brightness of the bulb. The voltage across each load depends on the load's resistance. The sum of the voltage across each load is equal to the total voltage.

Parallel connection

Circuit B in Activity 3 is a parallel circuit. In a parallel circuit, loads form branches; each provides a separate path for charges to flow. A gap or a break in any branch will not affect the other branches. Thus, when one bulb is removed from the socket, a gap is created only for that branch. The other bulbs still glow as their path is still complete.

In a parallel connection the voltage is the same across each load. The total current is equal to the sum of the currents in the branches. The amount of current is inversely proportional to the resistance of the load.

Activity

3

What's the connection?

- In this activity students will find out how series and parallel connections are constructed. Giving them a situation to figure out how to do it stimulates problem solving skills of students.
- Be sure that when you let them do circuit A there should only be three wires for each group. For circuit B only four wires should be given. If the number of wires is not limited, they will not be able to execute the simplest way to demonstrate connections of bulbs in series and parallel.
- Tell the class to show them what they have constructed and check if it fits to the condition (one bulb unscrewed, then other one turns off for Circuit A; one bulb is unscrewed and the other bulb remains lighted for Circuit B). Usually the series connection is easier for the students. For parallel connections, students will experience some challenge in doing it.
- Most textbooks show parallel connections shown in Figure 6:

Grade 8 Learners Guide Science

RJ Alexander



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Table of Contents Grade 8 Learners Guide Science

1. Understanding the eBook Grade 8 Learners Guide Science
 - The Rise of Digital Reading Grade 8 Learners Guide Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 8 Learners Guide Science
 - 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 Grade 8 Learners Guide Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 8 Learners Guide Science
 - Personalized Recommendations
 - Grade 8 Learners Guide Science User Reviews and Ratings
 - Grade 8 Learners Guide Science and Bestseller Lists
5. Accessing Grade 8 Learners Guide Science Free and Paid eBooks
 - Grade 8 Learners Guide Science Public Domain eBooks
 - Grade 8 Learners Guide Science eBook Subscription Services

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

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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