

Series Circuits

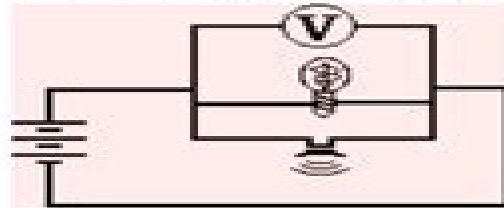
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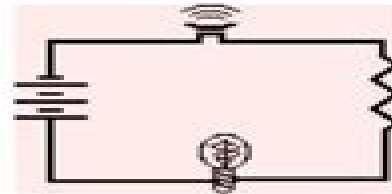
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MOP Connection: Electric Circuits: sublevels 7, 9 and 11

1. Electrical devices in circuits can be connected to each other in a number of different ways. The two most common connections are *series* connections and *parallel* connections. Observe the electrical wiring below. Indicate whether the connections are series or parallel.

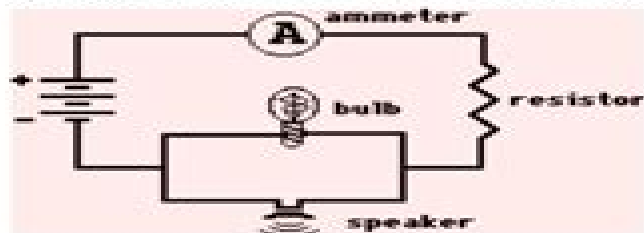


Series or Parallel?



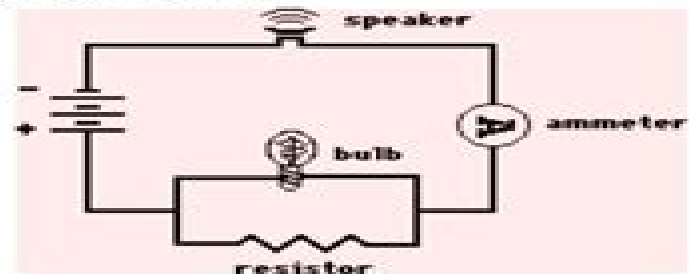
Series or Parallel?

2. Two electric circuits are diagrammed below. For each circuit, indicate which two devices are connected in series and which two devices are connected in parallel.



Series _____

Parallel _____



Series _____

Parallel _____

3. **Comparing Series vs. Parallel Circuits**

Fill in the table below to indicate the manner in which series and parallel circuits differ.

	Series Circuit	Parallel Circuit
a. Definition: The pathway by which charge loops around the circuit is characterized by _____ pathway(s).		
b. Observation: If one light bulb goes out, the other light bulbs _____.		
c. Observation: As the number of resistors is increased, the overall current _____.		
d. Observation: As the number of resistors is increased, the overall resistance _____.		

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 - The Rise of Digital Reading Study Guide Series And Parallel Circuits Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Series And Parallel Circuits 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 Study Guide Series And Parallel Circuits Answers
 - User-Friendly Interface
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 - Study Guide Series And Parallel Circuits Answers Enhanced eBook Features
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 - Highlighting and Note-Taking Study Guide Series And Parallel Circuits Answers
 - Interactive Elements Study Guide Series And Parallel Circuits Answers
 8. Staying Engaged with Study Guide Series And Parallel Circuits Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Guide Series And Parallel Circuits Answers
 9. Balancing eBooks and Physical Books Study Guide Series And Parallel Circuits Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Guide Series And Parallel Circuits Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Study Guide Series And Parallel Circuits Answers
 - Setting Reading Goals Study Guide Series And Parallel Circuits Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Study Guide Series And Parallel Circuits Answers
 - Fact-Checking eBook Content of Study Guide Series And Parallel Circuits Answers
 - 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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