

Electricity & Magnets

Study Guide & Review Worksheets

Name _____

Electricity and Magnets

1. What are 3 examples of conductors?
2. What are 3 examples of insulators?
3. Julius is an electrician. Why does he use a light switch?
4. What happens to the flow of electricity in an open circuit?
5. Amy rubs a balloon on her head. Her hair is attracted to the balloon. What causes Amy's hair to be attracted to the balloon?

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Electricity & Magnets

Terms to Know

- **Conductor**, Materials that allow electricity to easily flow through them.
- **Insulator**, Materials that do not allow electricity to flow easily through them.
- **Open Circuit**, A circuit that does not allow a continuous flow of electricity.
- **Closed Circuit**, A complete circuit that allows electricity to flow.
- **Electrical Energy**, Energy produced by the movement of charged particles.

Conductors

Conductors are materials which allow electricity to easily flow through them.



gold



copper



iron

Insulators

Insulators are materials that do not allow electricity to flow easily through them.



rubber



wood



plastic

Simple Circuit

A simple circuit consists of a bulb, battery, and wire.

Open Circuit



In an open circuit, there is an opening in the path. The opening stops the flow of the electrical current.

Closed Circuit



In a closed circuit, the path is complete. The completed path allows the electrical current to continuously flow.

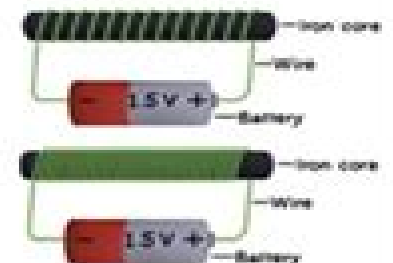
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Electricity

Electricity is the flow of charged particles or when coming out of the ground, it is called lightning.



magnets



Example: The bottom magnet has more strength because it has more coils.

Energy Transformations

Energy can be transformed into other forms of energy.

Electrical to Mechanical



fan

Electrical to Thermal



toaster

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Basic Electricity Guide

Y Pai



Basic Electricity Guide:

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Table of Contents Basic Electricity Guide

1. Understanding the eBook Basic Electricity Guide
 - The Rise of Digital Reading Basic Electricity Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Basic Electricity Guide
 - 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 Basic Electricity Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Electricity Guide
 - Personalized Recommendations
 - Basic Electricity Guide User Reviews and Ratings
 - Basic Electricity Guide and Bestseller Lists
5. Accessing Basic Electricity Guide Free and Paid eBooks
 - Basic Electricity Guide Public Domain eBooks
 - Basic Electricity Guide eBook Subscription Services
 - Basic Electricity Guide Budget-Friendly Options
6. Navigating Basic Electricity Guide eBook Formats

- ePub, PDF, MOBI, and More
- Basic Electricity Guide Compatibility with Devices
- Basic Electricity Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Basic Electricity Guide
 - Highlighting and Note-Taking Basic Electricity Guide
 - Interactive Elements Basic Electricity Guide
- 8. Staying Engaged with Basic Electricity Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Basic Electricity Guide
- 9. Balancing eBooks and Physical Books Basic Electricity Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Basic Electricity Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Basic Electricity Guide
 - Setting Reading Goals Basic Electricity Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Basic Electricity Guide
 - Fact-Checking eBook Content of Basic Electricity Guide
 - 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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