

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. Julie 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.



Insulators

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



Simple Circuit

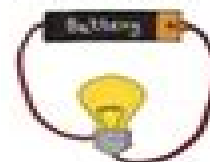
A simple circuit consists of a bulb, battery, and wire.

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.

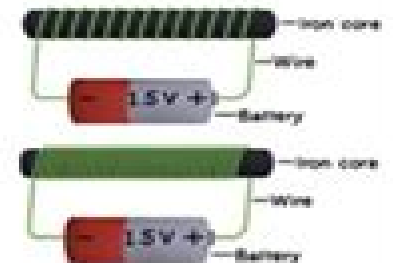
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Electricity

Electricity is the flow of charged particles or when coming out of the ground, for example is lightning.



magnets



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

Energy Transformations

Energy can be transformed into other forms of energy.

Electrical to Mechanical



Electrical to Thermal



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

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