

# 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 she 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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# Basic Electricity Study Guide

**SJ Ball**



## **Basic Electricity Study Guide:**

The book delves into Basic Electricity Study Guide. Basic Electricity Study Guide is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Basic Electricity Study Guide, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Basic Electricity Study Guide
  - Chapter 2: Essential Elements of Basic Electricity Study Guide
  - Chapter 3: Basic Electricity Study Guide in Everyday Life
  - Chapter 4: Basic Electricity Study Guide in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Basic Electricity Study Guide. This chapter will explore what Basic Electricity Study Guide is, why Basic Electricity Study Guide is vital, and how to effectively learn about Basic Electricity Study Guide.
3. In chapter 2, this book will delve into the foundational concepts of Basic Electricity Study Guide. This chapter will elucidate the essential principles that need to be understood to grasp Basic Electricity Study Guide in its entirety.
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5. In chapter 4, this book will scrutinize the relevance of Basic Electricity Study Guide in specific contexts. This chapter will explore how Basic Electricity Study Guide is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Basic Electricity Study Guide. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Basic Electricity Study Guide.

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