

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.

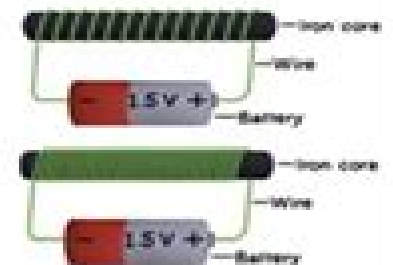
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Electricity

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 Study Guide

Milton Gussow



Basic Electricity Study Guide:

Basic Electricity Charles W. Ryan, 1986-10-28 Basic Electricity Second Edition A Self Teaching Guide Ever Wonder What makes a light bulb work What overloads a fuse Why your car needs a battery and an alternator We all use electricity in our daily lives yet most of us don't know what it is or how it works With Basic Electricity Second Edition you can teach yourself all about electricity for everyday understanding or as a basis for further study This easy to use guide takes you through the basics of electricity and familiarizes you with the workings of voltage current resistance power and other circuit values in direct current and alternating current electricity The Second Edition has been extensively updated to include the latest in electrical technology Through step by step problem solving you'll gain a true understanding of the basic rules laws concepts and equations of electric circuits Best of all you'll understand and appreciate the nature of electricity without ever having to determine its invisible identity Self tests at the end of each chapter have been fully revised and a brand new end of course exam is included so you can test your overall comprehension of basic electricity For further study the Second Edition's cross referenced list of standard texts on electricity has also been updated

Schaum's Outline of Theory and Problems of Basic Electricity Milton Gussow, 1983 Inside you will find 640 solved problems covering very aspect of basic electricity courses with step by step solutions Hundreds of additional practice problems with answers supplied Clear explanations of basic electrical theory and applications Helpful diagrams of circuits and systems Easy to understand coverage of induction capacitance resistance and more

Schaum's Easy Outline of Basic Electricity Milton Gussow, 2002-02-22 Authoritative Concise Easy to Use Schaum's Easy Outlines are streamlined versions of best selling Schaum's titles We've shortened the text broadened the visual appeal and introduced study techniques to make mastering any subject easier The results are reader friendly study guides with all the impressive academic authority of the originals Schaum's Easy Outlines feature Concise text that focuses on the essentials of the course Quick study sidebars icons and other instructional aids Sample problems and exercises for review Expert advice from authorities in the field

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Trade and Industrial Education, 1972

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Vocational Education Bulletin United States. Division of Vocational Education, 1961

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