

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.

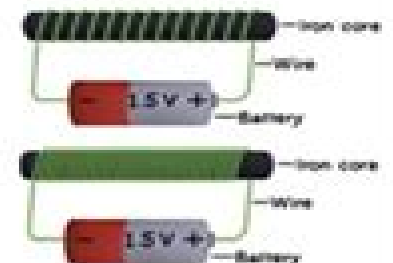
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Electricity

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

**United States. Department of the
Army**



Basic Electricity 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

Basic Electricity United States. Department of the Army, 1977 *Basic Electricity* United States. Bureau of Naval Personnel, 1945 *Guide to Basic Electricity* Harry George Cisin, 1957 *Basic Electricity* Paul B. Zbar, 1974 For students and instructors in vocational technical colleges

Basic Electricity & Practical Wiring Thomas Hoerner, 2007-05-15 This manual covers circuits measuring electric power and costs switching grounding for safety wire and current protection transmission and distribution of electricity and the service entrance Considerable emphasis on safety including the use of the GFCI Each unit includes practical wiring exercises explaining the topics covered along with the proper use of electrical tools

A Learning Guide, 1982 **Handbook of Basic Electricity** M. Fogiel, U S Naval Personnel, Research and Education Association, 2002-01-01 REA's Handbook of Basic Electricity The material in this handbook was prepared for electrical training courses It is a practical manual that enables even the beginner to grasp the various topics quickly and thoroughly REA's Handbook of Basic Electricity is one of a kind in that it teaches the concepts of basic electricity in a way that's clear to the point and very easy to understand It forms an excellent foundation for those who wish to proceed from the basics to more advanced topics Numerous illustrations are included to simplify learning theories and their applications Direct current and alternating current devices and circuits are explained in detail Magnetism as well as motors and generators are described to give the reader a thorough understanding of them The Handbook of Basic Electricity is an excellent resource for the layperson as well as licensed electricians

Basic Electricity Paul B. Zbar, Gordon Rockmaker, 1992 *Basic Electricity and Practical Wiring: Instructor's Manual* Harry J. Hoerner, 197?

Basic Electricity Guide Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Basic Electricity Guide**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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