

Student Exploration: Magnetism

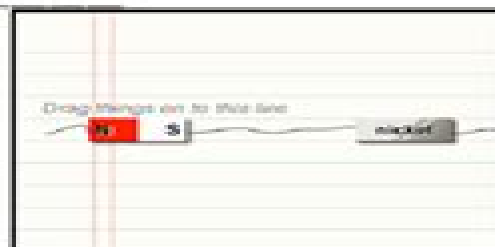
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What happens when you place two magnets close together? There will be a force pulling the magnets together.
2. What objects do magnets stick to? Make a list. Paperclips, coins, and refrigerators, boards and many objects containing any type of metal.
3. What do these objects have in common? contains metal.

Gizmo Warm-up: What is attracted to magnets?

A **bar magnet** is a simple rectangular magnet. If you hang a bar magnet by a string, the **north pole (N)** of the magnet will tend to point north while the **south pole (S)** of the magnet points south.

1. Look at the materials at the bottom of the Gizmo. Which ones do you think will stick to a bar magnet?
North and south connect South to north.



2. **Ferromagnetic** materials are strongly attracted to magnets. Drag a bar magnet and the piece of **nickel** onto the scribbled line. Press **Play** (▶).
A. Is nickel ferromagnetic? yes
B. How do you know? Because is attaching to a magnet.
3. Test copper, wood, glass, and iron. Which ones are ferromagnetic? Iron

Activity A: Attract or repel?	<u>Get the Gizmo ready:</u> <ul style="list-style-type: none"> • Check that the MAGNETIC FORCES tab is selected. • Click Reset (↺). 	
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Question: How do magnets interact?

1. **Observe:** Drag two bar magnets onto the paper and press **Play**. Then click **Reset**. Change one of the magnets (either from **N-S** to **S-N**, or vice-versa). Click **Play** again.
A. What happened the first time? the magnets that go N-S to N-s attach.
B. What happened the second time? The magnets that go S-N to N-S push each other away.
2. **Form hypothesis:** Magnets are either pulled together (**attracted**) or pushed apart (**repelled**). Based on what you have seen, when are magnets attracted and when are they repelled?
Magnets with opposite ends attract and the ones with same ends repel.
3. **Predict:** Based on your hypothesis, which pairs of magnets will be attracted to each other? Which will be repelled? Record your predictions below. (Leave the result blank for now.)

Gizmo Answer Sheet Magnetism

Christian G. Meyer

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Gizmo Answer Sheet Magnetism:

Children's Books in Print, 2007 ,2006 **Magnetism** Adele Richardson,2006 Provides an introduction to magnetism and the creation forces and applications of magnets *Magnet Mania Gr. 4-7* Darlene Davis,2001-01-01 Magnet Mania is specifically designed to make the study of magnets a truly exciting classroom experience The hands on approach offers the students an opportunity to explore magnets how they work and their uses with the teacher as a facilitator or guide With the core teaching lessons students learn key concepts related to this exciting topic Student notes consists of fact based information presented in a fun way that younger students will love Optional lessons investigates charged particles and outlines an additional nineteen activities allowing the teacher to build flexibility into the unit for your science class This Physical Science lesson provides a teacher and student section with a variety of reading passages activities crossword word search and answer key to create a well rounded lesson plan Magnetism and Electricity Mel Feigen,1994 Introduces students to the excitement of scientific discoveries and experiences with these hands on activities that are designed to stimulate young minds **Questions in Electricity and Magnetism** ,1919 Hands-On - Physical Science: Electricity and Magnetism Gr. 1-5 George Graybill,2016-10-01 This is the chapter slice Electricity and Magnetism Gr 1 5 from the full lesson plan Hands On Physical Science Get your students excited about energy and all things that move with our Hands On Physical Science resource for grades 1 5 Combining Science Technology Engineering Art and Math this resource aligns to the STEAM initiatives and Next Generation Science Standards Study balanced and unbalanced forces by dropping different objects to measure the effect of gravity and air resistance on them Measure the distance of lightning by watching and listening for thunder Get into groups and make models of water sound and light waves Experience static electricity first hand by getting a balloon to magically stick to a wall Describe a solid liquid and gas around your home by its properties Make a compound machine with your classmates by combining at least two simple machines Each concept is paired with hands on experiments and comprehension activities to ensure your students are engaged and fully understand the concepts Reading passages graphic organizers before you read and assessment activities are included **Electricity and Magnetism, Grades 6 - 12** Beaver,Powers,2009-12-16 Connect students in grades 5 and up with science using Electricity and Magnetism Static Electricity Current Electricity and Magnets This 80 page book reinforces scientific techniques It includes teacher pages that provide quick overviews of the lessons and student pages with Knowledge Builders and Inquiry Investigations that can be completed individually or in groups The book also includes tips for lesson preparation materials lists strategies and alternative methods of instruction a glossary an inquiry investigation rubric and a bibliography It allows for differentiated instruction and supports National Science Education Standards and NCTM standards **The Question and Answer Book of Magnetism** Frances L. Behnke,1962 *Excellent Experiments with Electricity and Magnetism* Thomas Canavan,2017-07-15 Ever wonder how astronauts are able to breathe a continuous supply of oxygen in space This hands on

approach to electricity and magnetism lets readers conduct experiments to answer this and other fascinating questions. Readers will love learning that the scientific principles they're applying at home have real world applications. For example, they'll rock out on their own electric drums while learning about technological advances in professional instruments. Simple step by step instructions accompanied by detailed photographs make each activity accessible while handy tips ensure readers safety and fun. Budding scientists will enjoy exploring the recommended twists and additions to experiments.

Electricity and Magnetism Science Fair Projects, Using the Scientific Method Robert Gardner, 2010-01-01 Explains how to use the scientific method to conduct several science experiments about electricity and magnetism. Includes ideas for science fair projects. Provided by publisher.

Experiments with Electricity and Magnetism Trevor Cook, 2009-01-15 Kids will learn all about electricity and magnetism through these fun and easy to follow experiments.

Electricity and Magnetism Joel Beller, Kim Magliore, 2000 Reproducible activities correlated to the National Science Education Standards that engage students' minds as they observe, examine, investigate the nature of electricity, magnetism.

Janice VanCleave's Magnets Janice VanCleave, 1993-03-10 The perfect science fair idea book. Spectacular Science Projects. Janice VanCleave's Magnets. How does a compass work? What is a magnetic field? How can you make a magnet with electricity? Janice VanCleave's Magnets includes 20 simple and fun experiments that allow you to discover the answers to these and other fascinating questions about magnets, plus dozens of additional suggestions for developing your own science fair projects. Learn about magnetic poles using a bar magnet, paper and string about magnetic force fields with a compass, a pencil and a sheet of paper and much more. All experiments use inexpensive household materials and involve a minimum of preparation and clean up. Children ages 8-12. Also available in the Spectacular Science Projects Series: Janice VanCleave's Animals, Janice VanCleave's Earthquakes, Janice VanCleave's Electricity, Janice VanCleave's Gravity, Janice VanCleave's Machines, Janice VanCleave's Molecules, Janice VanCleave's Microscopes and Magnifying Lenses, Janice VanCleave's Volcanoes, Janice VanCleave's Weather.

Hand-book To Diagrams In Magnetism & Electricity. Sheet No.1 (-4) William Lees, 2025-05-22 Hand book To Diagrams In Magnetism. Electricity is a collection of diagrams related to the study of electromagnetism. Compiled by William Lees, this handbook provides visual aids for understanding the principles and phenomena associated with magnetism and electricity. The diagrams are presented in a series of sheets numbered 1 through 4, offering a structured approach to learning and reference. This resource is useful for students, educators, and anyone interested in gaining a clearer understanding of these fundamental scientific concepts through visual representation. This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps, as most of these works have been housed in our most important libraries around the world and other notations in the work. This work is in the public domain in the United States of America and possibly other nations. Within the United States, you

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An Auto-instructional Introduction to Magnets George E. Temp,1961 **Magnetism**

Joanna Brundle,2017-10 10 Easy Steps to Teaching Magnets & Electricity Wayne A. Boisselle,2002 Complete lesson plans activities resources etc to teach units on magnetism and electricity to elementary students **Questions on Magnetism, Electricity, and Practical Telegraphy** W. McGregor,2008-10-01 This scarce antiquarian book is a facsimile reprint of the original Due to its age it may contain imperfections such as marks notations marginalia and flawed pages Because we believe this work is culturally important we have made it available as part of our commitment for protecting preserving and promoting the world s literature in affordable high quality modern editions that are true to the original work Magnetism and Electricity Richard Wormell,1881 Magnetism and Electricity for Students Harry Edwin Hadley,1940

Reviewing **Gizmo Answer Sheet Magnetism**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Gizmo Answer Sheet Magnetism**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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