



Name:

Date:

Student Exploration: Magnetism

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: attract, bar magnet, ferromagnetic, magnetize, north pole, repel, south pole

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

1. What happens when you place two magnets close together?

They either attract or repel

2. What objects do magnets stick to? Make a list.

Metal, Nickel, and Iron

3. What do these objects have in common?

They are all found in the ground.

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?

iron



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?

they can become magnets

3. Test copper, wood, glass, and iron. Which ones are ferromagnetic?

iron and copper

Explore Learning Gizmo Answers Magnetism

Richard Spilsbury



Explore Learning Gizmo Answers Magnetism:

Creating Project-Based STEM Environments Jennifer Wilhelm, Ronald Wilhelm, Merryn Cole, 2019-02-05 This book models project based environments that are intentionally designed around the United States Common Core State Standards CCSS 2010 for Mathematics the Next Generation Science Standards NGSS Lead States 2013 for Science and the National Educational Technology Standards ISTE 2008 The primary purpose of this book is to reveal how middle school STEM classrooms can be purposefully designed for 21st Century learners and provide evidence regarding how situated learning experiences will result in more advanced learning This Project Based Instruction PBI resource illustrates how to design and implement interdisciplinary project based units based on the REAL Realistic Explorations in Astronomical Learning Unit 1 and CREATES Chemical Reactions Engineered to Address Thermal Energy Situations Unit 2 The content of the book details these two PBI units with authentic student work explanations and research behind each lesson including misconceptions students might hold regarding STEM content pre post research results of unit implementation with over 40 teachers and thousands of students In addition to these two units there are chapters describing how to design one s own research based PBI units incorporating teacher commentaries regarding strategies obstacles overcome and successes as they designed and implemented their PBI units for the first time after learning how to create PBI STEM Environments the REAL way

Magnets Cindy Christianson, 1995 By using a hands on minds on science approach to learning your children will experience the wonderful world of magnets through the activities in this book The activities have been divided into five main question sections What is magnetism How strong are magnets What is a magnetic field Will a magnet attract or repel What are some uses of magnets Each main question section offers children the opportunity to explore via discovery and simulation experiences the answers to these as well as other posed questions

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

Mighty Magnets Be Naturally Curious, 2015-01-26 Curious about magnets and how they stick together What about how they make some things move Designed for grades K 5 and to be done at home or with small groups this interactive multi activity mini course introduces children to the fundamentals of magnetic fields and how they occur The mini course includes an illustrated story based lesson as well as games activities and projects that appeal to all types of learners After reading an illustrated story and learning core concepts about magnetic

fields children explore different magnets and their properties through a series of experiments in which they are also taught to graph their own data Children then get up and move by exploring their environment and reinforcing their observational skills in a ferromagnetic scavenger hunt A make a magnet board game included in the mini course is then used to reinforce how a magnet works Finally children learn to create their own compasses and use them to design their own maps Most materials needed to complete the mini course can be cut from the book itself or if preferred downloaded and printed using an included link The mini course requires minimal additional items to complete the activities three magnets of different strengths large shallow dish such as a pie pan plastic cap from a milk or water jug long sewing needle check that it is ferromagnetic at least six paper clips scotch tape ruler or tape measure scissors pencil and blank paper for drawing Upon completing the mini course children will be provided with links to additional online resources and will earn new concept badges for their Science Tool Kit included in the mini course including magnetism ferromagnetic magnetic moment and unpaired electron

Investigating Magnetism Richard Spilsbury, 2018 Budding scientists will love learning about the properties of magnetism by planning and carrying out investigations that explore how magnetic force is affected by distance strength and size

Magnetism Christopher Cooper, 2003 Provides an information library on the main aspects of science and life sciences with an emphasis on enquiry This series answers the questions that children ask and addresses the topics that they are required to research at this level

Magnetism & Magnets Michael Flaherty, 2002

Embracing the Track of Phrase: An Psychological Symphony within **Explore Learning Gizmo Answers Magnetism**

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