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- Grade: *4th*
- Teacher's name: *Mrs. Hight*

# MAGNETS

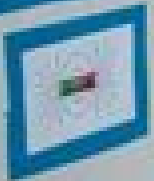


## PURPOSE

The purpose of this project is to show how magnets react to different types of materials.

## RESEARCH

Research stated that magnets attract some materials or magnets repel other materials. The new theory is that magnets attract some materials and repel other materials.



## HYPOTHESIS

If magnets are placed near different materials, they will attract or repel. If a material is attracted to a magnet, it is a magnetic material. If a material is not attracted to a magnet, it is a non-magnetic material.

## PROCEDURE

**Step 1:**  
Place some small objects which are normally not in the way to the iron plate.

**Step 2:**  
Bring a magnet near the plate.

**Step 3:**  
You will see some of the objects get attracted towards the magnets, while others don't.

The objects that get attracted towards the magnets will be called a magnetic or a magnetic material.

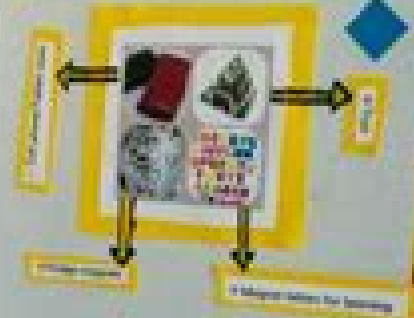
## MATERIALS

- Iron filings
- Paper
- Card
- Glass
- Plastic
- Wood
- Metal

## RESULTS

Object	Material	Result
1	Iron filings	Attracted
2	Paper	Not attracted
3	Card	Not attracted
4	Glass	Not attracted
5	Plastic	Not attracted
6	Wood	Not attracted
7	Metal	Attracted

## MAGNETS WE SEE



## CONCLUSION

This is a project in which we learned that magnets attract some materials or magnets repel other materials. The new theory is that magnets attract some materials and repel other materials.

# 3rd Grade Science Fair Projects Magnets

**J Dewey**



### 3rd Grade Science Fair Projects Magnets:

**Science Fair Projects, Grade 1-3** Daryl Vriesenga, 1992 If you plan to have your class do science projects this year for science fair or any other purpose this book is for you Science Fair Projects is a practical simple guide for developing science projects It will direct your students through each step o Electricity and Magnetism, Grades 6 - 12 John B. Beaver, Ph.D., Don Powers, Ph.D., 2010-01-04 Reinforce good scientific techniques The teacher information pages provide a quick overview of the lesson while student information pages include Knowledge Builders and Inquiry Investigations that can be completed individually or as a group Tips for lesson preparation materials lists strategies and alternative methods of instruction a glossary an inquiry investigation rubric and a bibliography are included Perfect for differentiated instruction Supports NSE and NCTM standards plus the Standards for Technological Literacy **Last Minute Science Fair Ideas - A Day or Two Remains...** Experiland, 2010-09-23 Have you ever wondered how a telescope brings objects closer or how cameras take pictures How boats float or aeroplanes fly All of these seemingly complicated things can be explained by basic science With the help of this book you will construct many weird wonderful and wacky experiments that you can have hours of fun with Is the deadline for your science fair project quickly approaching Not to worry the Last Minute Science Fair Ideas series is written in an easy to follow format that will guide you to create an exciting science project for the upcoming fair The science projects in each of the books of this 4 volume series are conveniently sorted according to the approximate time required to complete each experiment The 100 projects contained in this science experiment e book cover a wide range of scientific topics from Chemistry and Electricity to Life Sciences and Physics there are even experiments on earth science astronomy and geology all designed for young students from grade 1 to 8 With this book you are sure to find a project that interests you When you are interested in a certain science topic you will have more fun and learn more too Amongst many others you will use the shadows of the sun to tell the time to understand how the earth rotates construct a simple water turbine to see how hydro power is generated make beautiful patterns on a wall to experiment with sound waves and let a light bulb shine using a lemon as a battery to learn about electricity Other fun experiments include making a kaleidoscope periscope telescope intruder detector doorbell relay fruit powered battery recycled paper cold pack smoke bomb water turbine air pressure rocket camera obscura insect trap water clock water purifier light bulb inclinometer sun dial moon box and many many more When making these gadgets you ll discover that science is a part of every object in our daily lives and who knows maybe someday you will become a famous inventor too Designed with safety in mind most of the items you will need for the experiments such as jars aluminium foil scissors and sticky tape you can find around your home Others such as magnets lenses or a compass you will be able to buy quite cheaply at a hobby shop or hardware store Hands-On Experiments: Physical Science: Gravity, Magnets, & Electricity , *Resources for Teaching Middle School Science* Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of

Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

**Hands-On Science and Technology, Grade 3**

**3** Jennifer Lawson, 2008-08-08 This teacher resource offers a detailed introduction to the Hands On Science and Technology program guiding principles implementation guidelines an overview of the science skills that grade 3 students use and develop and a classroom assessment plan complete with record keeping templates It also includes connections to the Achievement Levels as outlined in The Ontario Curriculum Grades 1 8 Science and Technology 2007 This resource has four instructional units Unit 1 Growth and Changes in Plants Unit 2 Strong and Stable Structures Unit 3 Forces Causing Movement Unit 4 Soils in the Environment Each unit is divided into lessons that focus on specific curricular expectations Each lesson has curriculum expectation s lists materials lists activity descriptions assessment suggestions activity sheet s and

graphic organizer s      **Science for the Fifth Grade with Experiments** Percy Elliott Rowell,1913      **Last Minute Science Fair Ideas - Results within an Hour...** Experiland,2010-09-23 Have you ever wondered how a telescope brings objects closer or how cameras take pictures How boats float or aeroplanes fly All of these seemingly complicated things can be explained by basic science With the help of this book you will construct many weird wonderful and wacky experiments that you can have hours of fun with Is the deadline for your science fair project quickly approaching Not to worry the Last Minute Science Fair Ideas series is written in an easy to follow format that will guide you to create an exciting science project for the upcoming fair The science projects in each of the books of this 4 volume series are conveniently sorted according to the approximate time required to complete each experiment The 70 projects contained in this science experiment e book cover a wide range of scientific topics from Chemistry and Electricity to Life Sciences and Physics there are even experiments on earth science astronomy and geology all designed for science students from grade 1 to 8 With this book you are sure to find a project that interests you When you are interested in a certain science topic you will have more fun and learn more too Amongst many others you will make a fluid for copying newsprint to blank sheets of paper make your own lava lamp with oil and water Use a wristwatch and the sun as a compass mapping how far the sun is from the moon measuring the height of your school with the use of the sun learning how to read an electricity consumption meter fill a nylon stocking with nothing but static electricity mapping the positions of tastes of your tongue making a Snellen chart to test your friends eyesight Study how much air weigh by making a balance and many many more When making these gadgets you ll discover that science is a part of every object in our daily lives and who knows maybe someday you will become a famous inventor too Designed with safety in mind most of the items you will need for the experiments such as jars aluminium foil scissors and sticky tape you can find around your home Others such as magnets lenses or a compass you will be able to buy quite cheaply at a hobby shop or hardware store      **Jake Drake, Know-It-All** Andrew Clements,2007-06-26 First Aladdin Paperbacks edition July 2001 This Aladdin Paperbacks edition June 2001 T p verso      **Reading Comprehension and Skills, Grade 3** Carson-Dellosa Publishing,2008-12-19 Use Reading Comprehension and Skills to help students in grade 3 develop a strong foundation of reading basics so that they will become competent readers who can advance to more challenging texts This 128 page book encourages vocabulary development and reinforces reading comprehension It includes engaging grade appropriate passages and stories about a variety of subjects reproducible and perforated skill practice pages 96 cut apart flash cards answer keys and an award certificate      **Science Fair Warm-up** John Haysom,2013 Answer the questions and face science fairs without fear with help from the Science Fair Warm Up series The teachers guide lets you make best use of the original investigations and problem solving exercises provided by each of the grade appropriate student editions The Science Fair Warm Up series consists of three books each book builds on the ideas introduced in the previous book and the problems in the later books are progressively more challenging The series field tested material will help your

students develop the inquiry skills to carry their projects through whether they re middle schoolers preparing for their first science fair or high schoolers ready for very challenging investigations      **Resources in Education** ,1997      Resources for Teaching Elementary School Science National Science Resources Center of the National Academy of Sciences and the Smithsonian Institution,1996-03-28 What activities might a teacher use to help children explore the life cycle of butterflies What does a science teacher need to conduct a leaf safari for students Where can children safely enjoy hands on experience with life in an estuary Selecting resources to teach elementary school science can be confusing and difficult but few decisions have greater impact on the effectiveness of science teaching Educators will find a wealth of information and expert guidance to meet this need in Resources for Teaching Elementary School Science A completely revised edition of the best selling resource guide Science for Children Resources for Teachers this new book is an annotated guide to hands on inquiry centered curriculum materials and sources of help in teaching science from kindergarten through sixth grade Companion volumes for middle and high school are planned The guide annotates about 350 curriculum packages describing the activities involved and what students learn Each annotation lists recommended grade levels accompanying materials and kits or suggested equipment and ordering information These 400 entries were reviewed by both educators and scientists to ensure that they are accurate and current and offer students the opportunity to Ask questions and find their own answers Experiment productively Develop patience persistence and confidence in their own ability to solve real problems The entries in the curriculum section are grouped by scientific area Life Science Earth Science Physical Science and Multidisciplinary and Applied Science and by type core materials supplementary materials and science activity books Additionally a section of references for teachers provides annotated listings of books about science and teaching directories and guides to science trade books and magazines that will help teachers enhance their students science education Resources for Teaching Elementary School Science also lists by region and state about 600 science centers museums and zoos where teachers can take students for interactive science experiences Annotations highlight almost 300 facilities that make significant efforts to help teachers Another section describes more than 100 organizations from which teachers can obtain more resources And a section on publishers and suppliers give names and addresses of sources for materials The guide will be invaluable to teachers principals administrators teacher trainers science curriculum specialists and advocates of hands on science teaching and it will be of interest to parent teacher organizations and parents      *Under the Streetlights* Matt Deisen,2016-06-10 In *Under the Streetlights* a former atheist shares his journey of asking tough questions pondering the purpose of life and ultimately stumbling toward faith in God Having been raised in an atheist home science functioned as more than a discipline for Matt Deisen it was his religion He had faith in the scientific method but faith in God was a foreign thing a strange thing even a dangerous thing He was raised like so many in his generation to view religion with tolerant skepticism and respectful disbelief But Matt had questions How could you possibly know if God truly exists How can you

follow someone you cant see And why do you need to go sit in a building or join a religious club in order to find Him In his early years Matt wanted Christians to fail in their faith to wake up from their delusions and come back to reality And then something happened Under the Streetlights follows Matt on his journey of questioning what we have taken for granted thirsting for something deeper and ultimately finding what each of us in our own way is longing to find an unshakable belief in something greater than ourselves      Hands-On Science and Technology for Ontario, Grade 3 Jennifer E.

Lawson,2020-09-07 Experienced educators share their best classroom tested ideas in this teacher friendly activity based resource The grade 3 book is divided into four units Growth and Changes in Plants Strong and Stable Structures Forces Causing Movement Soils in the Environment STAND OUT COMPONENTS custom written for the Ontario curriculum uses an inquiry based scientific and technological approach builds understanding of Indigenous knowledge and perspectives TIME SAVING COST EFFECTIVE FEATURES includes resources for both teachers and students a four part instructional process activate action consolidate and debrief enhance an emphasis on technology sustainability and personalized learning a fully developed assessment plan for assessment for as and of learning a focus on real life technological problem solving learning centres that focus on multiple intelligences and universal design for learning UDL land based learning activities and Makerspace centres access to digital image banks and digital reproducibles Find download instructions in the Appendix of the book      Evidence-Based Reading, Grade 3 ,2015-01-05 Evidence Based Reading for grade 3 offers 64 pages of reading practice It is aligned with the Common Core State Standards and includes a reading comprehension rubric a standards alignment chart and pages of reading passages with evidence based questions to encourage higher level thinking and thoughtful answers Each question is designed so that students learn to support their answers with evidence from the text A variety of literature and informational passages are included to engage learners in a range of texts The Applying the Standards Evidence Based Reading series emphasizes close reading by requiring students to answer text dependent questions in both literary and informational texts This is a series of six 64 page books for students in kindergarten to grade 5 Various reading and vocabulary skills are covered and a culminating reflection question for each passage engages students higher level thinking skills Of particular emphasis throughout the series are the Common Core State Standards and the teaching of evidence based reading      *The ERIC Review* ,1991 Provides information on programs research publications and services of ERIC as well as critical and current education information      Standardized Test Practice for 5th Grade Charles J. Shields,1999-05 Grade specific exercises and practice tests to prepare students for various standardized tests including the California Achievement Tests the Iowa Tests of Basic Skills the Comprehensive Tests of Basic Skills the Stanford Achievement Tests the Metropolitan Achievement Tests and the Texas Assessment of Academic Skills      *Science News-letter* ,1963      **Molly Attracts Opposites With Magnetism** Carole Marsh,2008 Activities teach students about magnetism and magnets

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