

Lesson Plans & Activities

Static Electricity

Grade 3-4

Materials

- Balloons – 1 per student
- Puffed rice cereal or plastic foam pellets
- Piece of wool
- _ tsp of salt and _ tsp of pepper – combined pile/student

Background

All materials contain millions of tiny particles, called protons and electrons that have electric charges. Protons have positive charges, and electrons negative ones. Typically, they balance each other, but sometimes when two surfaces rub together, some of the electrons rub off one surface onto the other, and we can have static electricity. Materials with like charges (all positive or all negative) move away from each other; those with opposite charges attract each other.

Introduction

What is static electricity?

Ask students if they've ever dragged their feet across the room. What happened when they touched something afterward? Did they ever:

- Give a shock to someone in their family?
- Receive a shock when they've touched something?

These are forms of static electricity. Static electricity is a form of energy. Energy can move to make things work. Since we are made up of mostly water, electricity can move through our body to try to get to the ground, and that's why we must act safely around electricity.

Static electricity application

Ask who has seen lightning during a storm. Lightning is a powerful form of static electricity. Just like when we shock someone, lightning is a shock from the clouds to the earth. Positive and negative charges move to make static electricity.

How does static electricity work?

Perform an activity with students to explore charges and explain static electricity. Use a magnet if it helps demonstrate the concept.

Procedure

Step 1: Have students blow up balloons and rub them with the piece of wool.

After the balloon has been rubbed, it becomes negatively charged.

Step 2: Have the students hold their balloons over the plastic foam pellets and observe what happens.

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**University of Iowa. College of
Education**



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Science Starters: Elementary Chemistry & Physics Parent Lesson Plan ,2013-08-01 Science Starters Elementary Chemistry and Physics Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Chemistry Investigate the Possibilities Elementary Chemistry Matter Its Properties Its Changes Infused with fun through activities and applied learning this dynamic full color book provides over 20 great ways to learn about bubbles water colors salt and the periodic table all through interactive lessons that ground students in their faith in God Help tap into the natural curiosity of young learners with activities utilizing common household items teaching them why and how things work what things are made of and where they came from Students will learn about the physical properties of chemical substances why adding heat causes most chemical changes to react faster the scientist who organized a chart of the known elements the difference between chemical changes and physical changes Semester 2 Physics Investigate the Possibilities Elementary Physics Energy Its Forms Changes Function This remarkable full color book is filled with experiments and hands on activities helping 3rd to 6th graders learn how and why magnets work different kinds of energy from wind to waves and concepts from nuclear power to solar energy Science comes alive as students are guided through simplified key concepts of elementary physics and through hands on applications Students will discover what happens to light waves when we see different colors how you can see an invisible magnetic field the essential parts of an electric circuit how solar energy can be changed into electric energy Investigate the wonderful world God has made with science that is both exciting and educationally outstanding in this comprehensive series

Resources for Teaching Elementary School Science National Science Resources Center of the National Academy of Sciences and the Smithsonian Institution,1996-04-11 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 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 Teaching and Learning Online Franklin S. Allaire, Jennifer E. Killham, 2022-04-01 Science is unique among the disciplines since it is inherently hands on However the hands on nature of science instruction also makes it uniquely challenging when teaching in virtual environments How do we as science teachers deliver high quality experiences in an online environment that leads to age grade level appropriate science content knowledge and literacy but also collaborative experiences in the inquiry process and the nature of science The expansion of online environments for education poses logistical and pedagogical challenges for early childhood and elementary science teachers and early learners Despite digital media becoming more available and ubiquitous and increases in online spaces for teaching and learning Killham et al 2014 Wong et al 2018 PreK 12 teachers consistently report feeling underprepared or overwhelmed by online learning environments Molnar et al 2021 Seaman et al 2018 This is coupled with persistent challenges related to elementary teachers lack of confidence and low science teaching self efficacy Brigido Borrachero Bermejo Gunning Duran Duran 2004

Ideal for undergraduate teacher candidates graduate students teacher educators classroom teachers parents and administrators this book addresses why and how teachers use online environments to teach science content and work with elementary students through a research based foundation *Distance Learning for Elementary STEM* Amanda Thomas, 2021-02-17 This practical guide outlines a vision for online and distance STEM learning at the elementary level with creative activities based on eight STEM themes Online and distance learning may sound fairly straightforward Instead of learning in a classroom setting students learn at home with the assistance of online resources But classroom learning does not always translate easily to online settings particularly at the elementary level where children should be actively engaging in activities exploration and discussion From designing a zoo to learning to garden to exploring the night sky you ll find eight STEM lessons that are creative hands on and engaging for elementary learners Written for teachers and parents the book unpacks STEM integration across multiple subjects with connections to the ISTE Standards The book also includes play based lessons for young learners and ideas for innovative design challenges Each of the eight lessons includes An overview of materials resources time and supervision needed Suggested resources to explore such as simulations and virtual field trips Supplementary learning materials such as questions and quizzes Ideas for games and reinforcement Hands on activities and engineering design challenges Connections to various content areas as well as children s books movies and art to keep the learning going after the lesson is completed Concluding with a model for designing online and distance STEM learning for elementary aged children this book will support teachers and parents in designing the types of resources and learning experiences they need for elementary students distance learning Audience K 5 teachers and parents Resources in Education ,1996 Directory of Distance Learning Opportunities Modoc Press, Inc., 2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation Connected Newsletter ,2006 Harcourt Science: Physical science, [grade] 4, Units E and F, teacher's ed. [v. 18]. Life science, [grade] 5, Units A and B, teacher's ed ,2000 **The National Union Catalog** Library of Congress, 1958 Constitutes the quinquennial cumulation of the National union catalog Motion pictures and filmstrips **Films and Other Materials for Projection** Library of Congress, 1958 **Electricity and Magnetism** ,2013 University of Iowa Monographs in Education ,1928 **A Case Study of Chemistry Teaching and Learning in a Tenth Grade Classroom in Jordan** Fathī Hasan

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