

Name Key Date \_\_\_\_\_ Class \_\_\_\_\_

# Electricity • Guided Reading and Study

## Electric Charge and Static Electricity

This section describes how electric charges interact and explains what an electric field is. It also explains what static electricity is.

### Use Target Reading Skills

Before you read, preview Figure 4 on page 40. Then study the questions that you have about the diagram in the graphic organizer below. As you read, answer your questions.

Transfering Static Electricity	
1. What are the three ways static electricity can be transferred?	• <u>Dragging by friction</u>
2.	<u>by conduction</u>
3.	<u>by induction</u>

### Electric Charge

- The charge on a proton is called positive
- The charge on an electron is called negative
- Circle the letter of each statement that is true about interactions between charges.
  - ☒ A. Charges that are the same repel each other.
  - ☒ B. Charged objects never attract each other.
  - ☒ C. Charges that are different attract each other.
  - ☒ D. Charged objects always repel each other.
- Why do protons repel protons but attract electrons?
 

Protons are of the same charge but electrons are of different charge
- The interaction between electric charges is called electricity

Benjamin Franklin  
was the first to use the term "positive" and "negative" to describe the two types of electric charge. He invented the lightning rod too.

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## Electric Charge and Static Electricity (continued)

### Electric Force

- What is electric force?
 

It is the attraction or repulsion between electric charges.
- What is a region around a charged object where the object's electric force is exerted on other charged objects?
 

An electric field
- Electric field lines are drawn with arrows to show the \_\_\_\_\_ direction of the electric force.
 

direction
- In the following sentence, write true or false: The greater the distance, the stronger the electric field.
 

False weaker
- When there are two or more charges, the electric fields of each individual charge \_\_\_\_\_ combine by repelling or attracting.
 

combine

### Static Electricity

- Circle the letter of the sentence that explains why there is no overall electric charge in a neutral object.
  - ☒ a. In the object's atoms, each positive charge is balanced by a negative charge.
  - ☐ b. The object's atoms contain no charged particles.
  - ☐ c. The positive charges are attracted to other positive charges.
  - ☐ d. In the object's atoms, negative charges outnumber positive charges.
- How can an object become charged?
 

An uncharged object becomes charged by gaining or losing electrons.
- The buildup of charges on an object is called static electricity
- If an object gains electrons, what will be its overall charge?
 

negative

# Electric Charge And Static Electricity Guided Reading Key

**Xiang Xie**



## **Electric Charge And Static Electricity Guided Reading Key:**

*Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science*, 2003-11  
Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Prentice Hall Science Explorer** Michael J. Padilla, 2002

**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      **Electricity and Magnetism** ,2005      Gcse Success Rev Gd Aqa Physics Andrew Catterall,2011-08-30 This Success Revision Guide offers accessible content to help students manage their revision and prepare for the exam efficiently The content is broken into manageable sections and advice is offered to help build students confidence Exam tips and techniques are provided to support students throughout the revision process      **Complete Guide for RRB Group D Level 1 Exam 2019 2nd Edition** Disha Experts,2019-03-26 Complete Guide to Indian Railways RRB Group D Level 1 Exam 2019 English Edition covers the complete syllabus as per the latest notification The book provides complete preparatory theory and practice exercises with solutions The book has been divided into 4 sections Mathematics General Intelligence Reasoning General Science General Awareness The book also provides Latest Current Affairs

**Prentice Hall Chemistry** ,2000      **McDougal Littell Science** ,2004-04-30      **Guide to College Reading (2001 Reprint)** Kathleen T. McWhorter,2000      Complete Guide to Indian Railways (RRB) Group D Exam 2018 Disha Experts, Complete Guide to Indian Railways RRB Group D Exam 2018 English Edition covers the complete syllabus as per the latest notification The book provides complete preparatory theory and practice exercises with solutions      Energy for the 21st Century Roy L. Nersesian,2015-05-18 A compendium of current knowledge about conventional and alternative sources of energy It clarifies complex technical issues enlivens history and illuminates the policy dilemmas we face today This revised edition includes new material on biofuels an expanded section on sustainability and sustainable energy and updated figures and tables throughout There are also online instructor materials for those professors who adopt the book for classroom use

*Physics: a Descriptive Analysis* Albert J. Read,1970      *Elementary Electricity Up-to-date* Sidney Aylmer-Small,1909

**Energy in American History** Jeffrey B. Webb,Christopher R. Fee,2024-05-30 Contextualizes and analyzes the key energy transitions in U S history and the central importance of energy production and consumption on the American environment and in American culture and politics Focusing on the major energy transitions in U S history from the pre industrial era to the present day this two volume encyclopedia captures the major advancements events technologies and people synonymous with the production and consumption of energy in the United States Expert contributors show how for example the introduction of electricity and petroleum into ordinary American life facilitated periods of rapid social and political change as well as profound and ongoing impacts on the environment These developments have in many ways defined and accelerated the pace of modern life and led to vast improvements in living conditions for millions of people just as they have also brought new fears of resource exhaustion and fossil fuel induced climate change Today as America begins to move beyond the use of fossil fuels toward a greater reliance on renewables including wind and solar energy there is a pressing need to understand energy in America s past in order to better understand its energy future      **Hawkins**

**Electrical Guide: Modern applications of electricity, reference index** Nehemiah Hawkins,1922      Harcourt Science: Physical science, [grade] 4, Units E and F, teahcer's ed. [v. 18]. Life science, [grade] 5, Units A and B, teacher's ed ,2000

*Infantry Journal* ,1946      **Hawkins Electrical Guide ...** Nehemiah Hawkins,1917      *Greater Allegheny Regional*  
*Industrial Purchasing Guide* ,1986      **Holt Physical Science** Mapi M. Cuevas,1994

## **Electric Charge And Static Electricity Guided Reading Key** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Electric Charge And Static Electricity Guided Reading Key**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://yousky7.com/results/browse/HomePages/Ai%20Tools%20Guide.pdf>

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