

Chapter 20 Electricity

Section 20.1 Electric Charge and Static Electricity

(pages 600–603)

This section explains how electric charge is created and how positive and negative charges affect each other. It also discusses the different ways that electric charge can be transferred.

Reading Strategy (page 600)

Identifying Main Ideas Copy the table on a separate sheet of paper. As you read, write the main ideas. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

Characteristics of Electric Charge	
Topic	Main Idea
Electric Charge	An excess or shortage of electrons produces a net electric charge.
Electric Forces	Like charges repel and opposite charges attract.
Electric Fields	The strength of a field depends on the net charge and distance from the charge.
Static Electricity	Charge can be transferred by friction, contact, and induction.

Electric Charge (pages 600–601)

- What are the two types of electric charge?
a. Positive b. Negative
- Is the following sentence true or false? In an atom, negatively charged electrons surround a positively charged nucleus.
true
- Is the following sentence true or false? If a neutral atom gains one or more electrons, it becomes a positively charged ion.
false
- What is the SI unit of electric charge? The coulomb

Electric Forces (page 601)

- Circle the letter of each sentence that is true about electric force.
 - Like charges attract and opposite charges repel.
 - ☒ Electric force is the attraction or repulsion between electrically charged objects.
 - Electric force is inversely proportional to the amount of charge.
 - ☒ Electric force is inversely proportional to the square of the distance between two charges.

Answers Section 20 1 Electric Charge And Static Electricity

Katrin Zwirgmaier



Answers Section 20 1 Electric Charge And Static Electricity:

I-physics Iv Tm' 2006 Ed. , Science Explorer Physical Science Michael J. Padilla,Ioannis Miaculis,Martha Cyr, , *Physics Extension File* Jim Breithaupt,2002 This physics extension file includes teaching notes guidance on coursework activities and equipment It has at least one assignment for each topic in the textbooks suitable for classwork and homework A comprehensive range of practical activities are included It contains extensive Key Skills and ICT materials An exam file resource containing a complete set of exam style questions in a format that can be used throughout Years 10 and 11 or as a resource for a revision programme is included

Basic Electronics & Communication Engineering: Electronics & Communication Short Questions and Answers Yashwant Kumar Parte,2022-08-25 The book Basics of Electronics and Communication Engineering Short Question and Answers is written to cater the needs of students for review purpose at the Engineering or polytechnic level of Electronics and Communication Telecommunication Engineering streams The basic principles of the book are learning and motivation Easy explanation of practice problems and short answer type review questions are the principal features of this book

GCSE Additional Science Foundation Brian Arnold,2006 This workbook emphasises the shift from fact learning to investigating and understanding how science works making it more up to date and relevant to everyday life

400 Fun Facts About Gadgets, Electronics, and Inventions for Kids The Perfect Gift for Young Inventors Dr. Rabea Hadi,2025-05-09 Enter the Electrifying World of Gadgets Circuits and Inventions Perfect for Kids Who Love to Explore Get ready to ignite your child s curiosity with 400 Fun Facts About Gadgets Electronics and Inventions for Kids This exciting and educational book is packed with incredible facts and fun illustrations that will energize young minds aged 5 9 From how electricity powers your home to the wonders of futuristic inventions this book transforms science into an adventure that s easy to understand and hard to put down It s a brilliant gift for young thinkers aspiring engineers and future inventors What readers are saying about my books Your kids will love this Reader Review The book is filled with lots of fun information that we think this teenage boy will love Reader Review This book is amazing Reader Review Why Kids and Adults Love This Book 400 Fascinating Facts Simple exciting facts about electronics robots renewable energy and more Chapter Quizzes 3 multiple choice questions at the end of every chapter to boost learning Vibrant Illustrations Eye catching images that make complex ideas fun Real World Inspiration Learn about legendary inventors and game changing discoveries Sparks Creativity Encourages kids to dream up their own inventions and explore STEM What s Inside How electricity works and powers the world around you Fun facts about robots smart tech and tomorrow s gadgets Eye opening info about solar panels wind energy and clean tech Safety tips for understanding and handling electricity responsibly The Ultimate Gift for Curious Young Minds Perfect for homeschooling classrooms libraries or just rainy day exploration this book encourages critical thinking creativity and a love for hands on learning Parents teachers and gift givers help kids fall in love with science engineering and innovation With this book they won t just read facts they ll

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