

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	
Electric Fields	
Static Electricity	

Electric Charge (pages 600–601)

- What are the two types of electric charge?
a. _____ b. _____
- Is the following sentence true or false? In an atom, negatively charged electrons surround a positively charged nucleus.

- Is the following sentence true or false? If a neutral atom gains one or more electrons, it becomes a positively charged ion.

- What is the SI unit of electric charge? _____

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.

Section 20 1 Electric Charge And Static Electricity Key

Brian Pressley, Walch Publishing



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Table of Contents Section 20 1 Electric Charge And Static Electricity Key

1. Understanding the eBook Section 20 1 Electric Charge And Static Electricity Key
 - The Rise of Digital Reading Section 20 1 Electric Charge And Static Electricity Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Section 20 1 Electric Charge And Static Electricity Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Section 20 1 Electric Charge And Static Electricity Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Section 20 1 Electric Charge And Static Electricity Key
 - Personalized Recommendations
 - Section 20 1 Electric Charge And Static Electricity Key User Reviews and Ratings

- Section 20 1 Electric Charge And Static Electricity Key and Bestseller Lists
- 5. Accessing Section 20 1 Electric Charge And Static Electricity Key Free and Paid eBooks
 - Section 20 1 Electric Charge And Static Electricity Key Public Domain eBooks
 - Section 20 1 Electric Charge And Static Electricity Key eBook Subscription Services
 - Section 20 1 Electric Charge And Static Electricity Key Budget-Friendly Options
- 6. Navigating Section 20 1 Electric Charge And Static Electricity Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Section 20 1 Electric Charge And Static Electricity Key Compatibility with Devices
 - Section 20 1 Electric Charge And Static Electricity Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Section 20 1 Electric Charge And Static Electricity Key
 - Highlighting and Note-Taking Section 20 1 Electric Charge And Static Electricity Key
 - Interactive Elements Section 20 1 Electric Charge And Static Electricity Key
- 8. Staying Engaged with Section 20 1 Electric Charge And Static Electricity Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Section 20 1 Electric Charge And Static Electricity Key
- 9. Balancing eBooks and Physical Books Section 20 1 Electric Charge And Static Electricity Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Section 20 1 Electric Charge And Static Electricity Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Section 20 1 Electric Charge And Static Electricity Key
 - Setting Reading Goals Section 20 1 Electric Charge And Static Electricity Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Section 20 1 Electric Charge And Static Electricity Key
 - Fact-Checking eBook Content of Section 20 1 Electric Charge And Static Electricity Key
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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