

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 Electric Charge And Static Electricity

Clemens Wendtner



Answers Section 20 Electric Charge And Static Electricity:

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