

Electric Charge and Static Electricity

BEFORE YOU READ

After you read this section, you should be able to answer these questions:

- What is an electric charge?
- How can an object become charged?
- How are conductors different from insulators?
- What are static electricity and electric discharge?

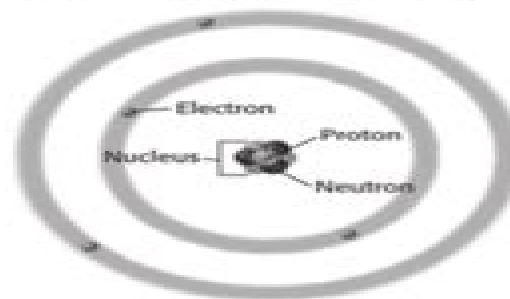
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PS 3a

What Is an Electric Charge?

Almost everywhere you go, you see electricity at work. Electricity starts our cars and lights our houses. It makes refrigerators and toasters run. Lightning flashes in the sky because of electricity. It can even make your hair stand on end.

To understand this amazing kind of energy, you need to learn about atoms and charge. All matter is made up of very small particles called atoms. Atoms are made of even smaller particles. The center, or *nucleus*, of every atom contains protons and neutrons. Protons have a positive charge and neutrons have no charge. Particles called electrons move around the nucleus. They have a negative charge. ☑



Protons and neutrons make up the center of the atom, the nucleus. Electrons are found outside the nucleus.

CHARGES EXERT FORCES

Charge is a physical property. An object can have a positive charge, a negative charge, or no charge at all. Charged objects exert a *force*—a push or a pull—on other charged objects.

STUDY TIP

Reading Organizer As you read this section, write an outline about electric charge. Use the vocabulary and italicized words in the outline.

READING CHECK

1. Name What are the two kinds of charged particles in atoms?

TAKE A LOOK

2. Identify What kind of particle has a positive charge? What kind has a negative charge? In the figure, put a plus sign (+) next to the particle with a positive charge. Put a minus sign (−) next to the particle with a negative charge.

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VM Jensen



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The Top Books of the Year Holt Directed Electric Charge And Static Electricity The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthraling the hearts of readers worldwide. Let's delve into the realm of top-selling books, exploring the captivating narratives that have charmed audiences this year.

The Must-Read :

Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph.

Holt Directed Electric Charge And Static Electricity : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting.

These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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