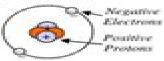
## Electricity and Why it Moves

### Electricity

Electricity is moving electrons; Protons can't move.

Protons are heldtogether in the nucleus by the strong nuclear force, the strongest force in mature, but electrons COURS BROWNING



Electricity connex from electrons moving between atoms.

### Charge.

Objects can be positive, negative, or neutral. The unit of charge is the coulomb (C).



A mentral object has an equal amount of protons and electrons.



A positive object has lost electrons, so it has more protons. than electrons.



A megative object. has gained electrons. so it has more electrons thus protons.

### Electric Force

Any two charges feel a force between them. Electric force depends on the types of charges, the distance between the charges, and the amounts of the two charges.





### Opposites attract

Provitive hydrogen attorns in water are attracted to the nepstimely charged halloom, causing the water introvaint to broad allightly towered the hedlows.

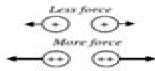






Two charped bullioons renel each other, so they must be the same charge (negotive).

Just like gravity, electric force increases as distance decreases. Closer. charges: more force.



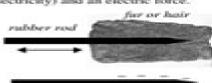


Electric force increases if either of the charges increases. More charge: mourse forece...

## Separating Charges

Naturally, objects are neutral. Work must be done to separate charges. Separating charges cause a charge difference and the electric force tries to move the charges back to neutral.

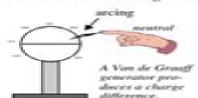
When two insulators rub, charges move between them, causing a separation of charge (static electricity) and an electric force.



Afterwards the rod is charged and it can exert an electric force.

If there is a difference of charge electricity can move between objects. A big enough difference can cause electricity to are (jump a gap). Bigger differences of charge allow bigger arcs.

## No difference in charge—electricity can not move.





A big chistpe difference core possite there thig grapes, like lightening arcing all the way to the ground.



Batteries cause electrions to move by separating charges in chemicals. When connected by wires. the charge can flow, eventually meatrallying the battery.

#### Ground

Ground (the earth) can take or give an infinite number of electrons. Ground is electrically neutral. Both positive and negative charges will neutralize when grounded

To ground something you can often touch it to a pipe. Pieces are usually connected to ground somewhere. in the building.







will give electrons. to ground.

# **Electricity And Why It Moves Unit 9 1**

Xiaolong Qi

# **Electricity And Why It Moves Unit 9 1:**

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Do Some Flags Look Alike 54 Learning to Write Opinions 57 2 58 From Space to Your Home Common Items Invented by NASA 62 64 65 72 77 Hearings, Reports and Prints of the Senate Select Committee on Small Business United States. Congress. Senate. Select Committee on Small Business, 1967 *Electric lighting and power distribution* William Perren Maycock, 1898 The Electrician, 1880 An Introduction to Natural Philosophy Denison Olmsted, 1891 Smithsonian Geographical Tables Smithsonian Institution, 1894 **Conference Proceedings** IEEE Power Engineering 1970 Census of Housing: Components of inventory change. 16 pts. in 3 v ,1972 Official Gazette of the Society, 1993 United States Patent Office United States. Patent Office, 1965 1970 Census of Housing ,1973 Components of Inventory Change United States. Bureau of the Census, 1962

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# Table of Contents Electricity And Why It Moves Unit 9 1

- 1. Understanding the eBook Electricity And Why It Moves Unit 9 1
  - The Rise of Digital Reading Electricity And Why It Moves Unit 9 1
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Electricity And Why It Moves Unit 9 1
  - 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 Electricity And Why It Moves Unit 9 1
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Electricity And Why It Moves Unit 9 1
  - Personalized Recommendations
  - Electricity And Why It Moves Unit 9 1 User Reviews and Ratings
  - Electricity And Why It Moves Unit 9 1 and Bestseller Lists
- 5. Accessing Electricity And Why It Moves Unit 9 1 Free and Paid eBooks

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