

Coulombic Attraction

What variables will affect the force of attraction between charged particles?

Why?

Coulombic attraction is the attraction between oppositely charged particles. For example, the protons in the nucleus of an atom have attraction for the electrons surrounding the nucleus. This is because the protons are positive and the electrons are negative. The attractive force can be weak or strong. In this activity, you will explore the strength of attraction between protons and electrons in various atomic structures.

Model 1 – Distance and Attractive Force

		Force of Attraction (Newtons)
A	 0.10 nm	2.30×10^{-8}
B	 0.20 nm	0.58×10^{-8}
C	 0.30 nm	0.26×10^{-8}

1. What subatomic particles do these symbols represent in Model 1?

 protons  electrons

2. Would you expect to observe attraction or repulsion between the subatomic particles in Model 1?

Attraction.



3. Consider the data in Model 1.

- a. What are the independent and dependent variables in the data?

Distance Force of Attraction

- b. Write a complete sentence that describes the observed relationship between the independent and dependent variables in Model 1.

As distance increases, force of attraction decreases (inverse)

4. If the distance between a proton and electron is 0.50 nm, would you expect the force of attraction to be greater than or less than 0.26×10^{-8} N?

less than 0.26×10^{-8} N

5. If two protons are 0.10 nm away from one electron, would you expect the force of attraction to be greater than or less than 2.30×10^{-8} N?

Greater than 2.30×10^{-8} N



1coulombic Attraction Worksheet Answers

Disha Experts

A red circular graphic with a gradient, appearing as a stylized arrow or a decorative element, located to the right of the 'Disha Experts' text.

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Table of Contents 1coulombic Attraction Worksheet Answers

1. Understanding the eBook 1coulombic Attraction Worksheet Answers
 - The Rise of Digital Reading 1coulombic Attraction Worksheet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying 1coulombic Attraction Worksheet Answers
 - 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 1coulombic Attraction Worksheet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 1coulombic Attraction Worksheet Answers
 - Personalized Recommendations
 - 1coulombic Attraction Worksheet Answers User Reviews and Ratings
 - 1coulombic Attraction Worksheet Answers and Bestseller Lists
5. Accessing 1coulombic Attraction Worksheet Answers Free and Paid eBooks
 - 1coulombic Attraction Worksheet Answers Public Domain eBooks
 - 1coulombic Attraction Worksheet Answers eBook Subscription Services
 - 1coulombic Attraction Worksheet Answers Budget-Friendly Options
6. Navigating 1coulombic Attraction Worksheet Answers eBook Formats

- ePub, PDF, MOBI, and More
 - 1coulombic Attraction Worksheet Answers Compatibility with Devices
 - 1coulombic Attraction Worksheet Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 1coulombic Attraction Worksheet Answers
 - Highlighting and Note-Taking 1coulombic Attraction Worksheet Answers
 - Interactive Elements 1coulombic Attraction Worksheet Answers
 8. Staying Engaged with 1coulombic Attraction Worksheet Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 1coulombic Attraction Worksheet Answers
 9. Balancing eBooks and Physical Books 1coulombic Attraction Worksheet Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 1coulombic Attraction Worksheet Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine 1coulombic Attraction Worksheet Answers
 - Setting Reading Goals 1coulombic Attraction Worksheet Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of 1coulombic Attraction Worksheet Answers
 - Fact-Checking eBook Content of 1coulombic Attraction Worksheet Answers
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
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 - Interactive and Gamified eBooks

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