

Electric Field

Read from Lesson 4 of the Static Electricity chapter at The Physics Classroom:

<http://www.physicsclassroom.com/Class/estatics/u8l4a.html><http://www.physicsclassroom.com/Class/estatics/u8l4b.html>

MOP Connection: Static Electricity: sublevels 10 and 11

- The standard metric units of measurements for electric field strength are N/C
- The direction of the electric field vector is defined as away from positive charge
toward negative charge

Use the electric field equations to answer the following questions.

- A test charge of $+1.0 \times 10^{-6} \text{ C}$ experiences a force of 0.050 N. The electric field strength is $5 \times 10^4 \text{ N/C}$
- A test charge of $+1.0 \times 10^{-6} \text{ C}$ experiences a force of 0.10 N. The electric field strength is $1 \times 10^5 \text{ N/C}$
- An object with a charge of $2.0 \times 10^{-4} \text{ C}$ creates an electric field. A test charge of $+1.0 \times 10^{-6} \text{ C}$ experiences a force of 0.050 N. The electric field strength is $5 \times 10^4 \text{ N/C}$
- An object with a charge of $2.0 \times 10^{-4} \text{ C}$ creates an electric field. A test charge of $+2.0 \times 10^{-6} \text{ C}$ experiences a force of 0.10 N. The electric field strength is $5 \times 10^4 \text{ N/C}$
- An object with a charge of $4.0 \times 10^{-4} \text{ C}$ creates an electric field. A test charge of $+1.0 \times 10^{-6} \text{ C}$ experiences a force of 0.10 N. The electric field strength is $1 \times 10^5 \text{ N/C}$

- An object with a charge of Q creates an electric field. A positive test charge, q, is used to test the strength of the field. Use this scenario to answer the following questions:

- If the charge of the test charge q is doubled, then it will experience 2x (2x, 4x, 1/2, 1/4-th, the same) force; the electric field strength at this location will be same (2x, 4x, 1/2, 1/4-th, the same as) the original value.
- If the charge of the object Q is doubled, then the test charge will experience 2x (2x, 4x, 1/2, 1/4-th, the same) force; the electric field strength at this location will be 2x (2x, 4x, 1/2, 1/4-th, the same as) the original value.
- If the distance between the charge and the test charge is doubled, then the test charge will experience 1/4 (2x, 4x, 1/2, 1/4-th, the same) force; the electric field strength at this location will be 1/4 (2x, 4x, 1/2, 1/4-th, the same as) the original value.

Use your understanding of electric force and electric field to fill in the following table.

	Charge creating the E field (C)	Charge used to test the E field (C)	Force experienced by test charge (N)	Electric Field Intensity (N/C)	Distance (fictional units)
a.	$4.0 \times 10^{-4} \text{ C}$	$1.0 \times 10^{-6} \text{ C}$	0.20 N	$2.0 \times 10^5 \text{ N/C}$	d
b.	$4.0 \times 10^{-4} \text{ C}$	$2.0 \times 10^{-6} \text{ C}$	0.40 N	$2.0 \times 10^5 \text{ N/C}$	d
c.	$8.0 \times 10^{-4} \text{ C}$	$1.0 \times 10^{-6} \text{ C}$	0.40 N	$4.0 \times 10^5 \text{ N/C}$	d
d.	$8.0 \times 10^{-4} \text{ C}$	$2.0 \times 10^{-6} \text{ C}$	0.80 N	$4.0 \times 10^5 \text{ N/C}$	d
e.	$8.0 \times 10^{-4} \text{ C}$	$1.5 \times 10^{-6} \text{ C}$	0.60 N	$4.0 \times 10^5 \text{ N/C}$	d
f.	$8.0 \times 10^{-4} \text{ C}$	$1.0 \times 10^{-6} \text{ C}$	0.10 N	$1.0 \times 10^5 \text{ N/C}$	2d
g.	$8.0 \times 10^{-4} \text{ C}$	$2.0 \times 10^{-6} \text{ C}$	0.20 N	$1.0 \times 10^5 \text{ N/C}$	2d
h.	$8.0 \times 10^{-4} \text{ C}$	$1.0 \times 10^{-6} \text{ C}$	0.10 N	$1.0 \times 10^5 \text{ N/C}$	2d
i.	$4.0 \times 10^{-4} \text{ C}$	$8.0 \times 10^{-6} \text{ C}$	0.10 N	$8.0 \times 10^5 \text{ N/C}$	0.5 d
j.	$4.0 \times 10^{-4} \text{ C}$	$4.0 \times 10^{-6} \text{ C}$	0.20 N	$8.0 \times 10^5 \text{ N/C}$	0.5 d

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Table of Contents Physics Classroom Packet Answers

1. Understanding the eBook Physics Classroom Packet Answers
 - The Rise of Digital Reading Physics Classroom Packet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Classroom Packet 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 Physics Classroom Packet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Classroom Packet Answers
 - Personalized Recommendations
 - Physics Classroom Packet Answers User Reviews and Ratings
 - Physics Classroom Packet Answers and Bestseller Lists
5. Accessing Physics Classroom Packet Answers Free and Paid eBooks

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