

CONCEPTUAL PHYSICS**Tech Lab****Electrostatics: Electric Field****Field Manipulation Challenge Simulation**

Electric Field Hockey

Purpose

To use a series of simulated game-like challenges to gain a sense of the vector nature of the electric field and the consequence of the inverse square law that governs electrostatic force.

Apparatus

computer PhET simulation, "Electric Field Hockey" (available at <http://phet.colorado.edu>)

Discussion

In the space around a charged object is an *aura* generally described as an electric field. The electric field is a vector quantity, so the fields surrounding multiple charges add vectorially. If they have the same direction, the fields add (Figure 1.a), and if they have opposite directions, they subtract and may even cancel each other (Figure 1.b). And if the directions are at angles to each other, their effects combine and act at a new angle (Figure 1.c).



Figure 1.a. Same direction—fields add



Figure 1.b. Opposite direction—fields cancel



Figure 1.c. Different directions—fields add to a different direction

Software

In "Electric Field Hockey," a player guides a charged puck into the goal (bracket). The player must strategically place positive and negative charges on the "rink" so that when the puck is released, it will be propelled by electric forces into the goal. Clicking the on-screen "Start" button sets the puck free. The charges placed on the rink are fixed in place and will not move.

Procedure

Step 1: Turn on the computer and allow it to complete its start-up cycle.

Step 2: Locate and start the PhET "Electric Field Hockey" simulation. Ask your instructor for assistance if you have difficulty.

Step 3: From the selections available near the bottom of the simulation window,

- leave "Puck is positive" selected.
- activate the "Trace." Leave the other checkboxes unchecked.
- set the mass slider control to 100. (Doing so makes it easier to follow the action on the screen.)
- leave the simulation in "Practice" mode for now.
- Complete the practice exercises that follow.

Continue until your lab time runs out or you win the prized and highly coveted "Coulomb Cup" (completion of Level 3).

Optional (if using the activity as a time-limited competition): When you score a prescribed goal, leave the trace on the screen and call the instructor over for a verification/stamp. **After** the group's papers have been stamped, click the on-screen "Clear" button and move to the next exercise.

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Table of Contents Conceptual Physics Electric Field Hockey Answers

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

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