

ANSWER KEY — Faraday's Electromagnetic Lab II: Pickup Coil, Transformer, and Generator

Answer the following questions on a separate sheet. The sim is available at phet.colorado.edu.

Part A: Pickup Coil

1. Run the PhET sim, "Faraday's Electromagnetic Lab." Maximize the window. Click the Pickup Coil tab. You should see a bar magnet, a compass needle grid, and a coil attached to a light bulb.

2. Describe the most effective way of using the magnet and the coil to light the bulb if
a. the coil cannot be moved.

Move the magnet in and out of the coil.

b. the magnet cannot be moved.

Move the coil over and off the magnet.

3. Rank the arrangements and motions shown below from most effective to least effective in terms of lighting the bulb, allowing for ties. For example, if A were most effective, B were least effective, and C and D were equivalent to one another, the ranking would be $A > C = D > B$.



$C > B > A = D$ [$C > B > D > A$ and $C > B > D > A$ are acceptable]

4. Move the bar magnet through the coil and observe the motion of the electrons in the forward arc of the coil loops. Report the correlations of magnet motion and electron motion.



a. Magnet approaches from the left, north pole first; electrons move downward.

b. Magnet departs to the right, south end last; electrons move upward.



c. Magnet approaches from the right, south pole first; electrons move downward.

d. Magnet departs to the left, north end last; electrons move upward.

Lab Electromagnetic Generation Phet Answer Key

**Charles Henderson, Mel Sabella, Leon
Hsu**



Lab Electromagnetic Generation Phet Answer Key:

2008 Physics Education Research Conference Charles Henderson, Mel Sabella, Leon Hsu, 2008-11-21 The 2008 Physics Education Research Conference brought together researchers studying a wide variety of topics in physics education. The conference theme was Physics Education Research with Diverse Student Populations. Researchers specializing in diversity issues were invited to help establish a dialog and spur discussion about how the results from this work can inform the physics education research community. The organizers encouraged physics education researchers who are using research based instructional materials with non traditional students at either the pre college level or the college level to share their experiences as instructors and researchers in these classes.

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Table of Contents Lab Electromagnetic Generation Phet Answer Key

1. Understanding the eBook Lab Electromagnetic Generation Phet Answer Key
 - The Rise of Digital Reading Lab Electromagnetic Generation Phet Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Lab Electromagnetic Generation Phet Answer Key
 - 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 Lab Electromagnetic Generation Phet Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lab Electromagnetic Generation Phet Answer Key
 - Personalized Recommendations
 - Lab Electromagnetic Generation Phet Answer Key User Reviews and Ratings
 - Lab Electromagnetic Generation Phet Answer Key and Bestseller Lists
5. Accessing Lab Electromagnetic Generation Phet Answer Key Free and Paid eBooks

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