

Activity A: Electromagnetic fields

Get the Gizmo ready:

- Turn on **Show electric field at sensor**.
- Click **Reverse** to move the magnet down and set the **Speed** to 10 cm/s.



STEFAN ROGGENDORF 4/8/24

Introduction: When electric current runs through a wire, it induces a **magnetic field** near the wire. Similarly, **electric fields** can be created in the process of **electromagnetic induction**.

Question: How do magnets induce electric fields?

1. **Observe:** While the magnet is *not* moving, is there any electric field? **Yes**

2. **Sketch:** Click **Forward**, and observe the electric field display. (Note: This display shows a top view of the electric field picked up by the sensor at the top of the SIMULATION pane.) Sketch the electric field at right.

Notice the electric field consists of an array of arrows, or **vectors**. Each vector represents the force on a positive charge located at the base of the vector.

What do you notice? **Each arrow is evenly distanced**



3. **Experiment:** Click **Reverse** and observe the electric field as the magnet moves away.

A. How does changing the direction of the magnet affect the electric field?

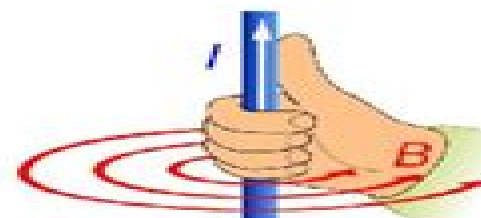
The electric field go farther away

B. Increase the **Speed** to 20 cm/s, and then click **Forward**. How does increasing the speed of the magnet affect the strength of the electric field?

The positive charge on the magnet gets stronger

4. **Make a rule:** If you have studied how currents induce magnetic fields, you may recall the **right-hand rule** illustrated at right. For electric currents, the thumb represents the direction of positive charge (I) and the fingers represent the induced magnetic field (B).

To describe the electric field induced by a moving magnet, you can use a "left-hand rule." What do the thumb and fingers of your left hand represent in this case?



Thumb: **The direction of the of the negative charge** Fingers: **The magnetic field**

Explore Learning Gizmo Answers Electromagnetic Induction

Rachel S Tattersall



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Table of Contents Explore Learning Gizmo Answers Electromagnetic Induction

1. Understanding the eBook Explore Learning Gizmo Answers Electromagnetic Induction
 - The Rise of Digital Reading Explore Learning Gizmo Answers Electromagnetic Induction
 - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Gizmo Answers Electromagnetic Induction
 - 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 Explore Learning Gizmo Answers Electromagnetic Induction
 - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Gizmo Answers Electromagnetic Induction
 - Personalized Recommendations
 - Explore Learning Gizmo Answers Electromagnetic Induction User Reviews and Ratings
 - Explore Learning Gizmo Answers Electromagnetic Induction and Bestseller Lists

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