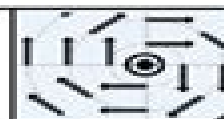


## Activity A: Electromagnetic fields

### 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**

# Electromagnetic Induction Explore Learning Gizmo Answers

**Sudhir Sood**



## **Electromagnetic Induction Explore Learning Gizmo Answers:**

The book delves into Electromagnetic Induction Explore Learning Gizmo Answers. Electromagnetic Induction Explore Learning Gizmo Answers is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Electromagnetic Induction Explore Learning Gizmo Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Electromagnetic Induction Explore Learning Gizmo Answers
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    - Chapter 3: Electromagnetic Induction Explore Learning Gizmo Answers in Everyday Life
    - Chapter 4: Electromagnetic Induction Explore Learning Gizmo Answers in Specific Contexts
    - Chapter 5: Conclusion
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  3. In chapter 2, the author will delve into the foundational concepts of Electromagnetic Induction Explore Learning Gizmo Answers. This chapter will elucidate the essential principles that must be understood to grasp Electromagnetic Induction Explore Learning Gizmo Answers in its entirety.
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  6. In chapter 5, this book will draw a conclusion about Electromagnetic Induction Explore Learning Gizmo Answers. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Electromagnetic Induction Explore Learning Gizmo Answers.

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## **Table of Contents Electromagnetic Induction Explore Learning Gizmo Answers**

1. Understanding the eBook Electromagnetic Induction Explore Learning Gizmo Answers
  - The Rise of Digital Reading Electromagnetic Induction Explore Learning Gizmo Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Electromagnetic Induction Explore Learning Gizmo 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 Electromagnetic Induction Explore Learning Gizmo Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electromagnetic Induction Explore Learning Gizmo Answers
  - Personalized Recommendations
  - Electromagnetic Induction Explore Learning Gizmo Answers User Reviews and Ratings
  - Electromagnetic Induction Explore Learning Gizmo Answers and Bestseller Lists
5. Accessing Electromagnetic Induction Explore Learning Gizmo Answers Free and Paid eBooks
  - Electromagnetic Induction Explore Learning Gizmo Answers Public Domain eBooks
  - Electromagnetic Induction Explore Learning Gizmo Answers eBook Subscription Services
  - Electromagnetic Induction Explore Learning Gizmo Answers Budget-Friendly Options
6. Navigating Electromagnetic Induction Explore Learning Gizmo Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Electromagnetic Induction Explore Learning Gizmo Answers Compatibility with Devices
  - Electromagnetic Induction Explore Learning Gizmo Answers Enhanced eBook Features

7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electromagnetic Induction Explore Learning Gizmo Answers
  - Highlighting and Note-Taking Electromagnetic Induction Explore Learning Gizmo Answers
  - Interactive Elements Electromagnetic Induction Explore Learning Gizmo Answers
8. Staying Engaged with Electromagnetic Induction Explore Learning Gizmo Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electromagnetic Induction Explore Learning Gizmo Answers
9. Balancing eBooks and Physical Books Electromagnetic Induction Explore Learning Gizmo Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electromagnetic Induction Explore Learning Gizmo Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Electromagnetic Induction Explore Learning Gizmo Answers
  - Setting Reading Goals Electromagnetic Induction Explore Learning Gizmo Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electromagnetic Induction Explore Learning Gizmo Answers
  - Fact-Checking eBook Content of Electromagnetic Induction Explore Learning Gizmo 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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