

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 Key Answer

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Electromagnetic Induction Key Answer:

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Table of Contents Electromagnetic Induction Key Answer

1. Understanding the eBook Electromagnetic Induction Key Answer
 - The Rise of Digital Reading Electromagnetic Induction Key Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Electromagnetic Induction Key Answer
 - 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 Key Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electromagnetic Induction Key Answer
 - Personalized Recommendations
 - Electromagnetic Induction Key Answer User Reviews and Ratings
 - Electromagnetic Induction Key Answer and Bestseller Lists
5. Accessing Electromagnetic Induction Key Answer Free and Paid eBooks
 - Electromagnetic Induction Key Answer Public Domain eBooks
 - Electromagnetic Induction Key Answer eBook Subscription Services
 - Electromagnetic Induction Key Answer Budget-Friendly Options
6. Navigating Electromagnetic Induction Key Answer eBook Formats
 - ePub, PDF, MOBI, and More
 - Electromagnetic Induction Key Answer Compatibility with Devices
 - Electromagnetic Induction Key Answer Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electromagnetic Induction Key Answer
 - Highlighting and Note-Taking Electromagnetic Induction Key Answer
 - Interactive Elements Electromagnetic Induction Key Answer
8. Staying Engaged with Electromagnetic Induction Key Answer

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Electromagnetic Induction Key Answer
- 9. Balancing eBooks and Physical Books Electromagnetic Induction Key Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electromagnetic Induction Key Answer
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electromagnetic Induction Key Answer
 - Setting Reading Goals Electromagnetic Induction Key Answer
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electromagnetic Induction Key Answer
 - Fact-Checking eBook Content of Electromagnetic Induction Key Answer
 - 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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