

**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**.

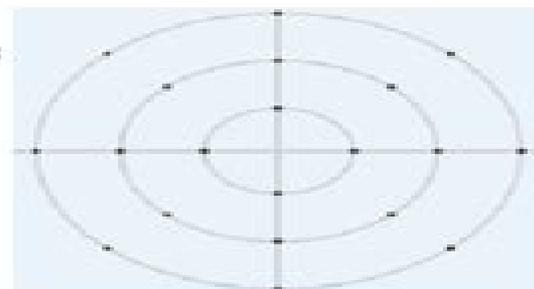
**Question:** How do magnets induce electric fields?

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**

# Gizmo Answer Key Magnetic Induction

**David Kirk**



**Gizmo Answer Key Magnetic Induction:  
New Scientist ,1973**

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## **Table of Contents Gizmo Answer Key Magnetic Induction**

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

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