

Activity A:
Observing
induction

Get the Gizmo ready:

- Set the **Current** to 0 amps.



Goal: Use compasses to determine the direction of magnetic field induced by a current in a wire.

1. Predict: Place the compasses in a circle around the wire as shown at right. What do you think will happen as you slowly drag the **Current** slider all the way to the right?

There will be a change in the needles' directions.



2. Test: Use the Gizmo to test your prediction. Describe the results:

They turned anticlockwise.

3. Observe: Look at the **Front** view.

In which direction is the current moving through the wire?

Up

(Note: By convention, the current direction shown is the direction of positive charge. In reality, electrons move in the opposite direction through the wire.)

4. Predict: Scientists use the **right-hand rule** to predict the direction of an **induced magnetic field**—or a magnetic field created by a current. To use the right-hand rule, position your right hand so that the thumb points in the direction of the current. The magnetic field lines wrap around the wire in the same direction as the fingers of your right hand.

If the current was pointed down, will the induced magnetic field be clockwise or counterclockwise?

Clockwise



5. Test: Set the **Current** to -60 amps.

- A. In which direction is the current now moving through the wire?
- B. What is the direction of the induced magnetic field?

Clockwise

Down

6. On your own: Use a battery, wire, and small compass to demonstrate magnetic induction. Describe your results in your science journal or notebook.

Answer To Stephen Murray Magnetic Induction

United States. Patent Office

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Table of Contents Answer To Stephen Murray Magnetic Induction

1. Understanding the eBook Answer To Stephen Murray Magnetic Induction
 - The Rise of Digital Reading Answer To Stephen Murray Magnetic Induction
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer To Stephen Murray 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 Answer To Stephen Murray Magnetic Induction
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer To Stephen Murray Magnetic Induction
 - Personalized Recommendations
 - Answer To Stephen Murray Magnetic Induction User Reviews and Ratings
 - Answer To Stephen Murray Magnetic Induction and Bestseller Lists
5. Accessing Answer To Stephen Murray Magnetic Induction Free and Paid eBooks
 - Answer To Stephen Murray Magnetic Induction Public Domain eBooks
 - Answer To Stephen Murray Magnetic Induction eBook Subscription Services
 - Answer To Stephen Murray Magnetic Induction Budget-Friendly Options

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