

Physics 12

Faraday's Electromagnetic Lab

Physicist:

Learning Outcomes (Students will be able to...):

- describe magnetic fields as regions of space that affect mass and charge
- describe magnetic fields by illustrating the source and direction of the lines of force
- describe magnetic fields in terms of poles
- describe the magnetic field produced by a current in a long, straight conductor, and in a solenoid
- analyse qualitatively the forces acting on a moving charge in a uniform magnetic field
- analyse qualitatively electromagnetic induction by both a changing magnetic flux and a moving conductor
- compare and contrast the ways a motor and generator function, using the principles of electromagnetism
- describe and compare direct current and alternating current

Answer the following questions in the space provided.

Part A: Bar Magnet

1. Run the simulation, "Faraday's Electromagnetic Lab." It should open to the Bar Magnet tab. Maximize the window. You should see a bar magnet, a compass, and a compass needle grid.
2. Center the bar magnet horizontally on the fourth or fifth row from the top. Set the large compass just below the bar magnet at its midpoint. It's okay for the two objects to be touching.
3. If the compass needles (in the grid or in the large compass) are to be thought of as arrows indicating the direction of the bar magnet's magnetic field, the "redward" is pointing towards the _____ pole and "whiteward" is pointing towards the _____ pole.
4. Using the on-screen slider in the control panel, run the strength of the bar magnet up and down. How does the simulation show the difference between a strong magnet and a weak magnet?
5. How does the strength of the magnetic field change with increasing distance from the bar magnet and how does the simulation show this?
6. With the magnet at its strongest, reverse the polarity using the on-screen "Flip Polarity" button in the control panel. What are the ways in which the simulation reflects this polarity reversal?
7. Describe the behaviour of the compass during a polarity reversal (magnet initially at 100%)
 - a. when the compass is touching the bar magnet at its midpoint.
 - b. when the compass is far from the bar magnet (touching the bottom of the sim window), but still on a perpendicular bisector of the bar magnet.
 - c. when the compass is far from the bar magnet and the magnet's strength is set to 10%.
8. Answer the following questions.
 - a. Around the exterior of the bar magnet, the direction of the magnetic field is from its _____ pole to its _____ pole.
 - b. What is the direction of the magnetic field in the interior of the bar magnet? And how did you find out?

Mastering Physics Faraday Electromagnetic Lab

Rosina Ehmann



Mastering Physics Faraday Electromagnetic Lab :

Embracing the Song of Term: An Psychological Symphony within **Mastering Physics Faraday Electromagnetic Lab**

In a world taken by monitors and the ceaseless chatter of instantaneous connection, the melodic beauty and psychological symphony developed by the prepared term usually diminish into the back ground, eclipsed by the constant sound and interruptions that permeate our lives. However, situated within the pages of **Mastering Physics Faraday Electromagnetic Lab** a stunning literary treasure full of organic emotions, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, that fascinating masterpiece conducts visitors on an emotional trip, well unraveling the hidden melodies and profound impact resonating within each carefully crafted phrase. Within the depths of the emotional examination, we shall explore the book is key harmonies, analyze its enthralling writing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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