

Getting Started: Open the PhET Simulation called Faraday's Electromagnetic Lab.
(If doing this from home, you will need to go here and play the simulation online:

http://phet.colorado.edu/simulations/sims.php?sim=Faradays_Electromagnetic_Lab

Procedures:

A. Bar Magnet

1. Here you will find a compass and a bar magnet. What do the two have in common?

2. Slowly move the compass around the bar magnet. What observations do you make? How can you explain what you are witnessing?

3. Increase and decrease the strength of the bar magnet (use slider) and continue to slowly move the compass around the bar magnet. What effect does changing the magnet's field strength appear to have on the compass?

4. Place the compass next to the South Pole of the bar magnet and press the Flip Polarity button. What happens to the magnet and the compass?

5. Click See Inside Magnet. What do you see?

6. Click Show Field Meter and move the meter around. In what position does $\vec{B}$ have the greatest magnitude? When does it get weaker?

7. Where is B_x positive? _____ Where is it negative? _____
Where is B_y positive? _____ Where is it negative? _____
8. Place the meter at a location to the left and underneath the bar magnet. What are the B_x , B_y and B values? Verify the mathematical relationship between the three.

Phys Faraday Phet Sim Lab Answers

Thomas O'Brien

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Phys Faraday Phet Sim Lab Answers:

Brain-powered Science Thomas O'Brien, 2010 How can a long metal needle pass through a balloon without popping it How can water flow at very different rates through two identical funnels How can a stick placed on a table under several sheets of newspaper and extended over the edge of a table snap when quickly struck without lifting or tearing the paper Author Thomas O'Brien takes these and 30 more science inquiry activities to a higher level in this book for educators who love to surprise and challenge their students with unanticipated results Using experiments based on the science of a discrepant event an experiment or demonstration in which the outcome is not what students expect O'Brien shows how learners can be motivated to reconsider their preconceived notions and think more closely about what has actually occurred and the underlying scientific explanations What makes this volume more valuable than a mere activity book is the addition of a science education component to the extensive science content found in each activity Each discrepant event is shown to be analogous to a pedagogical principle Speaking directly to teachers O'Brien writes Your participation as teacher as learner experimenter rather than simply passive reader in these minds on activities will lead you to question and help you to revise your implicit assumptions about the nature of science teaching and learning At the same time you will develop expertise with activities that you can use with your own students The dual purpose activities thus allow you to unlock two doors with one key the doors to your own learning and to your students learning The detailed analogies between the activities and science learning make the book an ideal resource for middle and high school teachers science teacher educators and their preservice students and professional development specialists alike This thorough and thought provoking text includes more than 200 up to date internet resources as well as extensions to each of the physical science biology and chemistry activities bringing the total number of inquiry activities to nearly 120 Most important the author reminds teachers that the study of science is full of surprises and should be both meaningful and fun for students

The Advancing World of Applied Electromagnetics

Akhlesh Lakhtakia, Cynthia M. Furse, Tom G. Mackay, 2024-04-08 This book commemorates five decades of research by Professor Magdy F Iskander Life Fellow IEEE on materials and devices for the radiation propagation scattering and applications of electromagnetic waves chiefly in the MHz THz frequency range as well on electromagnetics education This synopsis of electromagnetics stemming from the life and times of just one person is meant to inspire junior researchers and reinvigorate mid level researchers in the electromagnetics community The authors of this book are internationally known researchers including 12 IEEE fellows who highlight interesting research and new directions in theoretical experimental and applied electromagnetics Provides a single source reference to many of the most significant developments of the past 5 decades in theoretical experimental and applied electromagnetics Offers readers in each sub discipline discussed current research trends the state of the art the chief tools needed in that area and the vision of a research leader for that area Includes content of particular interest in Antennas and Propagation as well as Microwave Theory and Techniques Applied

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