

Gizmo Magnetic Induction Answers

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Gizmo Magnetic Induction Answers

Magnetic Induction. Measure the strength and direction of the magnetic field at different locations in a laboratory. Compare the strength of the induced magnetic field to Earth's magnetic field. The direction and magnitude of the inducing current can be adjusted.

Magnetic Induction Gizmo : Lesson Info : ExploreLearning

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ELECTROMAGNETIC INDUCTION GIZMO ANSWER KEY PDF

Electromagnetic Induction Explore how a changing magnetic field can induce an electric current. A magnet can be moved up or down at a constant velocity below a loop of wire, or the loop of wire may be dragged in any direction or rotated. The magnetic and electric fields can be displayed, as well as the magnetic flux and the current in the wire.

Electromagnetic Induction Gizmo : Lesson Info ...

To get back to the top you have to put the energy back in. Answer 2 Gauss is the unit of magnetic induction or magnetic flux...

What are the assessment answers for the explore learning ...

In the Magnetic Induction Gizmo™, you will use compasses to measure the magnetic field caused by a current. The SIMULATION pane shows an overhead and front view of a table with a wire threaded vertically through its center, perpendicular to the surface of the table. Check that the Current is set to 0 amps.

Student Exploration: Magnetic Induction (ANSWER KEY ...

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GIZMO ANSWER KEY MAGNETIC INDUCTION PDF - Amazon S3

Magnetic fields are produced by moving electrical charges and by magnetic materials. Earth has a weak magnetic field that causes compasses to point to the north. In the Magnetic Induction Gizmo, students use compasses to map the magnetic field produced by the current in a wire. They can also use a magnetic sensor to measure the strength of that field and compare it to the strength of Earth's magnetic field.

Gizmo of the Week: Magnetic Induction | ExploreLearning News

Print Page ASSESSMENT QUESTIONS: Questions & Answers ± 1. A wire carries a current of 10 amps. A researcher inds that the strength of the induced magnetic ield at a certain point is 0.50 G. What will the strength of the induced ield be at the same point if the current is increased...

Magnetic Induction Gizmo - ExploreLearning.pdf ...

The magnetic çux increases when the magnet and wire move toward one another (as in answer A) and decreases when the magnet and wire move apart (as in answer B). The çux also decreases if the area of the loop that is perpendicular to the magnetic ield changes (as in answer C). Correct Answer: D.

Electromagnetic Induction Gizmo - ExploreLearning.pdf ...

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.

Student Exploration: Magnetic Induction

that a magnetic field could induce an electric current in a wire, the direction of the current changes depending on which way the magnet was moved through the wire and that the faster the moving magnet, the stronger the current. THIS PROCESS IS CALLED ELECTROMAGNETIC INDUCTION.

Electromagnetic Induction Flashcards | Quizlet

Vocabulary: current, electric field, electromagnetic induction, magnetic field, magnetic flux, right-hand rule, vector, voltage, wind generator. Prior Knowledge Question (Do this BEFORE using the Gizmo.) A wind generator, such as the one shown at left, uses the power of wind to generate electricity.

SPH3U1 EM04c - Electromagnetic Induction Gizmo - Google Docs

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Study Guide Electromagnetic Induction Answers Key

Student Exploration: Electromagnetic Induction Vocabulary: current, electric field, electromagnetic induction, magnetic field, magnetic flux, right-hand rule, vector, voltage, wind generator Prior Knowledge Question (Do this BEFORE using the Gizmo.) A wind generator, such as the one shown at left, uses the power of wind to generate electricity.

Student Exploration: Electromagnetic Induction

of a magnetic induction field—more commonly called a magnetic field—because the needle's northern tip points in the direction of a field. In the Magnetic Induction Gizmo™, you will use compasses to measure the magnetic field caused by a current. The left side of the Gizmo shows an overhead and

Student Exploration: Magnetic Induction - Tsopelas Science

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