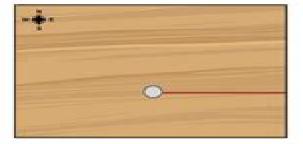
Student Exploration: Magnetic Induction

Gizmo Warm-up

A compass is a useful tool for measuring the direction 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 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.



Drag a compass to several different locations on the table. Where does the compass needle

point? To the north

The effect you see is due to Earth's magnetic field.

- Slowly increase the Current value from 0 to 60 amps. Describe what happens: A battery appears on the table and in the path of the red row.
- Move the compass around on the table. What do you notice? As you move the compass in a clockwise motion around the table, the needle also moves in a clockwise direction.

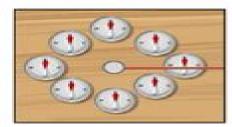
4

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

Get the Gizmo ready:

Set the Current to 0 amps.

 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? The directions of the needles will shift.



Magnetic Induction Gizmo Exploration Guide

James Alfred Ewing

Magnetic Induction Gizmo Exploration Guide:

On the Magnetic Induction of Crystals... Julius Plücker,1857 Magnetic Induction in Iron and Other Metals ,1904

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