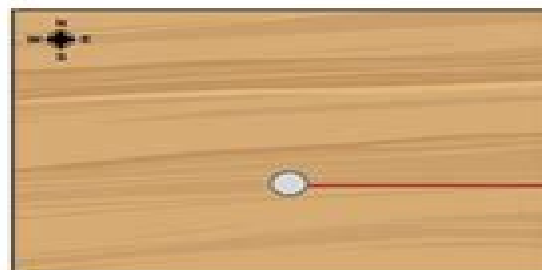


Student Exploration: Magnetic Induction

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.



1. 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.

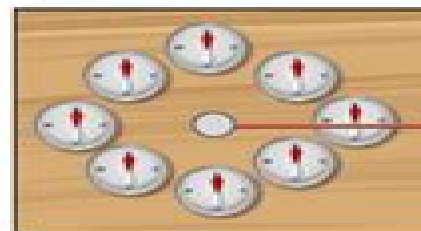
2. Slowly increase the **Current** value from 0 to 60 amps. Describe what happens: **A battery appears on the table and in the path of the red row.**
3. Move the compass around on the table. What do you notice? **As you move the compass in a clockwise motion around the table, the needle also moves in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

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? **The directions of the needles will shift.**



Magnetic Induction Gizmo Exploration Guide

James Alfred Ewing



Magnetic Induction Gizmo Exploration Guide:

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