Activity A: 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.

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?

There will be a change in the needles' directions.

2. Test: Use the Gizmo to test your prediction. Describe the results:

They turned anticlockwise.

3. Observe: Look at the Front view.

In which direction is the current moving through the wire?

Up

(Note: By convention, the current direction shown is the direction of positive charge. In reality, electrons move in the opposite direction through the wire.)

4. <u>Predict</u>: Scientists use the <u>right-hand rule</u> to predict the direction of an <u>induced magnetic field</u>—or a magnetic field created by a current. To use the right-hand rule, position your right hand so that the thumb points in the direction of the current. The magnetic field lines wrap around the wire in the same direction as the fingers of your right hand.



If the current was pointed down, will the induced magnetic field be clockwise or

counterclockwise?

Clockwise

- Test: Set the Current to -60 amps.
 - A. In which direction is the current now moving through the wire?
 - B. What is the direction of the induced magnetic field?

Clockwise

Down

 On your own: Use a battery, wire, and small compass to demonstrate magnetic induction. Describe your results in your science journal or notebook.

Answer To Stephen Murray Magnetic Induction

Thomas Griffiths

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