

Experiment 9: Electromagnetic Induction

I. Using PHet to learn about electromagnetic induction

- A. In the folder for this experiment on the D2L site, download the file `faradaysLaw.jar`. This is another simulation from our friends at PhET - University of Colorado. Become acquainted with the simulation by moving the bar magnet around.
- B. Make sure the 1 coil radio button is pressed and that the magnetic field lines are showing. The voltage meter shows a positive and negative sign which represents the direction of the current flowing in the wires.
- C. With the North side of the magnet on the left, place the bar magnet such that its center is in the center of the coil as shown below. Leave it there motionless for 5 seconds.



- D. What is the reading on the voltage meter and is the bulb bright? Now click on the bar magnet, and at a steady pace, move the magnet to the right just outside of the coil as shown below.



- E. What happened on the voltage meter and to the light bulb while the motion was taking place? What was the sign of the current shown on the voltage meter? What happened to the voltage meter and light bulb once the magnet was at rest on the outside of the coil. Procedures D and E simulated the upper left situation from Figure 1 in the pre-lab.
- F. Repeat the procedure for the other three scenarios in Figure 1, making sure to record the sign of the current induced and the light bulb's reaction to the movement.
- G. What can be said about the motion that is required to turn the light bulb on?
- H. If you look at equation (1) in the introduction, what variable in that equation takes into account the motion of the bar magnet and why?

Checkpoint 1! Please have your lab notebook checked before moving on to the second activity to be sure you have collected enough data to justify your claim.

Electricity And Magnetism Phet Lab Answers

ML Morrison



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