

## ANSWER KEY — Faraday's Electromagnetic Lab II: Pickup Coil, Transformer, and Generator

*Answer the following questions on a separate sheet. The sim is available at [phet.colorado.edu](http://phet.colorado.edu).*

### Part A: Pickup Coil

1. Run the PhET sim, "Faraday's Electromagnetic Lab." Maximize the window. Click the Pickup Coil tab. You should see a bar magnet, a compass needle grid, and a coil attached to a light bulb.

2. Describe the most effective way of using the magnet and the coil to light the bulb if

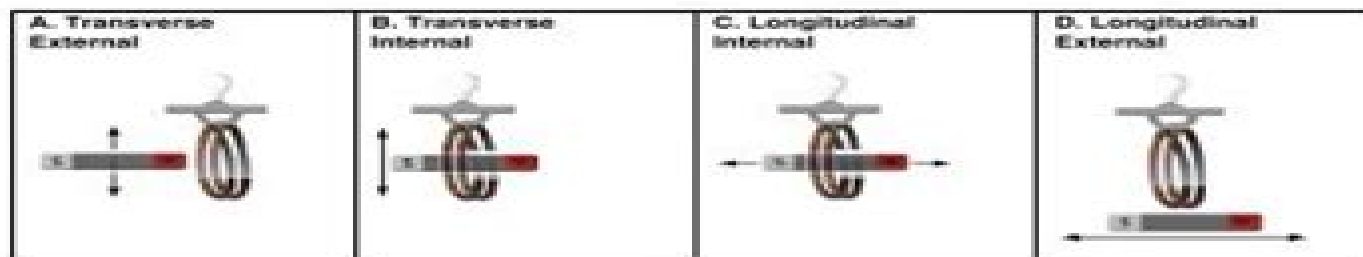
a. the coil cannot be moved.

**Move the magnet in and out of the coil.**

b. the magnet cannot be moved.

**Move the coil over and off the magnet.**

3. Rank the arrangements and motions shown below from most effective to least effective in terms of lighting the bulb, allowing for ties. For example, if A were most effective, B were least effective, and C and D were equivalent to one another, the ranking would be  $A > C = D > B$ .



**$C > B > A = D$  [  $C > B > D > A$  and  $C > B > D > A$  are acceptable ]**

4. Move the bar magnet through the coil and observe the motion of the electrons in the forward arc of the coil loops. Report the correlations of magnet motion and electron motion.



a. Magnet approaches from the left, north pole first; electrons move downward.

b. Magnet departs to the right, south end last; electrons move upward.



c. Magnet approaches from the right, south pole first; electrons move downward.

d. Magnet departs to the left, north end last; electrons move upward.

# Faraday S Electromagnetic Lab Conceptual Physics Answers

**Julia Schneider**



## **Faraday S Electromagnetic Lab Conceptual Physics Answers:**

## Unveiling the Magic of Words: A Report on "**Faraday S Electromagnetic Lab Conceptual Physics Answers**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Faraday S Electromagnetic Lab Conceptual Physics Answers**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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