

Electricity and Magnetism Web Quest

Name: _____

Begin by visiting

<http://micro.magnet.fsu.edu/electromag/java/faraday/>

1. In the space below explain what you observed.

When you close the switch, a current passes through the first coil and the iron ring becomes magnetized. Note that the compass in the second coil deflects momentarily and returns immediately to its original position.

2. What does the deflection of the compass indicate?

The deflection of the compass is an indication that an electromotive force was induced causing current to flow momentarily in the second coil. When you open the switch, notice that the compass again deflects momentarily, but in the opposite direction. The closing and opening of the switch cause the magnetic field in the ring to change to expand and collapse respectively. Faraday discovered that changes in a magnetic field could induce an electromotive force and current in a nearby circuit.

3. Define:

Electromagnetic Induction: The generation of an electromotive force and current by a changing magnetic field is called electromagnetic induction.

<http://micro.magnet.fsu.edu/electromag/java/faraday2/>

Read about Faraday's Magnetic Field Induction Experiment then use the mouse to move the magnet inside the coil.

4. In the space below explain what you observed.

When you move the magnet back and forth, notice that the galvanometer needle moves, indicating that a current is induced in the coil. Notice also that the needle immediately returns to zero when the magnet is not moving. Faraday confirmed that a moving magnetic field is necessary in order for electromagnetic induction to occur.

5. What is necessary to induce a current in a nearby circuit?

When Michael Faraday made his discovery of electromagnetic induction in 1831, he hypothesized that a changing magnetic field is necessary to induce a current in a nearby circuit. To test his hypothesis he made a coil by wrapping a paper cylinder with wire. He connected the coil to a galvanometer, and then moved a magnet back and forth inside the cylinder.

6. What does a galvanometer measure?

The galvanometer measures the current induced in the coil.

7. Analyze Faraday's Magnetic Field Induction Experiment and determine how it helped lead to the development of modern day power plants. Please include examples and at least one diagram.

Michael Faraday built two devices to produce what he called electromagnetic rotation: that is a continuous circular motion from the circular magnetic force around a wire. Ten years later, in 1831, he began his great series of experiments in which he discovered electromagnetic induction. These experiments form the basis of modern electromagnetic technology.

In 1831, using his "induction ring", Michael Faraday made one of his greatest discoveries - electromagnetic induction: the "induction" or generation of electricity in a wire by means of the electromagnetic effect of a current in another wire. The induction ring was the first electric transformer. In a second series of experiments in September he discovered magneto-electric induction: the production of a steady electric current. To do this, Faraday attached two wires through a sliding contact to a copper disc. By rotating the disc between the poles of a horseshoe magnet he obtained a continuous direct current. This was the first generator. From his experiments came devices that led to the modern electric motor, generator and transformer.

Michael Faraday continued his electrical experiments. In 1832, he proved that the electricity induced from a magnet, voltaic electricity produced by a battery, and static electricity were all the same. He also did significant work in electrochemistry, stating the First and Second Laws of Electrolysis. This laid the basis for electrochemistry, another great modern industry

Magnetism Webquest Answer Key

CH Cherryholmes

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the CH Cherryholmes text.

Magnetism Webquest Answer Key:

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Electricity and Magnetism ,1919 *The Question and Answer Book of Magnetism* Frances L. Behnke, 1962 **Magnetism**
,1802 **Electricity And Magnetism** ,1903 *Practical Exercises in Magnetism and Electricity* Harry Edwin Hadley, 1928

Decoding **Magnetism Webquest Answer Key**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Magnetism Webquest Answer Key**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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