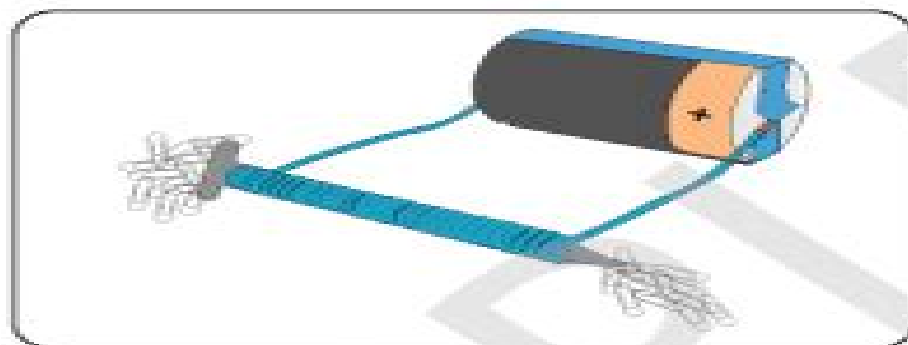


# Electromagnetism

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Read the passage on electromagnets and answer the questions that follow.



Joel was excited to learn about electromagnets in science class. He knew that magnets are objects that produce a magnetic field, which can attract metals such as iron, nickel, etc. He was eager to learn how electromagnets differ from permanent magnets and what their uses are.

Joel's science teacher, Ms. Keller, set about demonstrating how to make a simple electromagnet. She placed a 3-inch-long iron nail, a strip of insulated copper wire, a D-size battery, and some metal paper clips on the table.

Ms. Keller wound the wire around the length of the nail, leaving about 8 inches at both ends. She stripped off a bit of the insulation and connected each end of the wire to the terminals of the single battery. She taped the wire to the battery to ensure the circuit is complete.

When the tip of the nail was placed above the paper clips, Joel was amazed to see that the paper clips were picked up by the nail. The nail had turned into a magnet! Ms. Keller explained that the current created a magnetic field around the nail, making it attract the paper clips. The nail had turned into an electromagnet with distinct poles. The end in which the current flows clockwise is the south pole, and the one where the current flows counterclockwise is the north pole.

# Mastering Physics Answer Key Electromagnetism

**Barrett Williams, ChatGPT**



## **Mastering Physics Answer Key Electromagnetism:**

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