

# Demonstrating Magnetism

Electricity All Around Us  
Learner Worksheet



Name:

## Observations:

Your educator will show you some magnets and what their magnetic fields look like using the overhead projector, use the space below to record your observations.

Draw the permanent magnet and the shape of the magnetic field around it:	Draw the electromagnet and the shape of the magnetic field around it:

**Questions:**

- 1. Observations on reversing the polarity of the electromagnet: Describe what happens to the compass needle when the flow of electricity in the electromagnet is reversed.**

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- 2. What does the compass tell you about the polarity of the electromagnet when the flow of current changes direction?**

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- 3. What is the difference between a permanent magnet and an electromagnet?**

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- 4. What are two things you can do with an electromagnet that are impossible to with a permanent magnet?**

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- 5. Name several appliances that make use of electromagnets:**

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6. How many appliances with electromagnets can you find in your classroom?

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7. Name several appliances that make use of permanent magnets.

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