

Introduction to Magnets using *Faraday's Electromagnet Lab 1*

by Trish Loeblein May 10, 2010

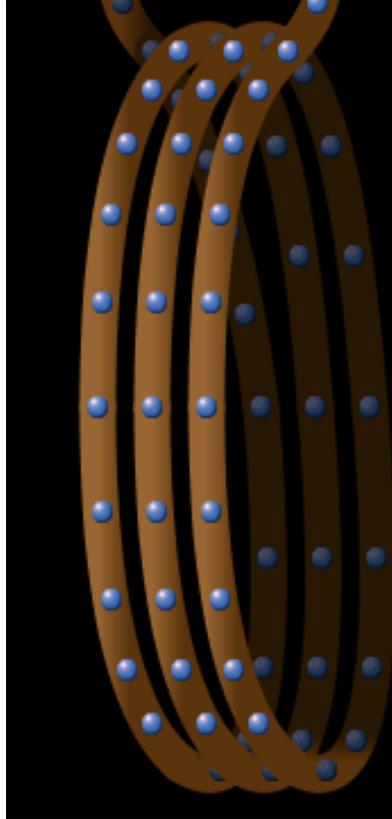
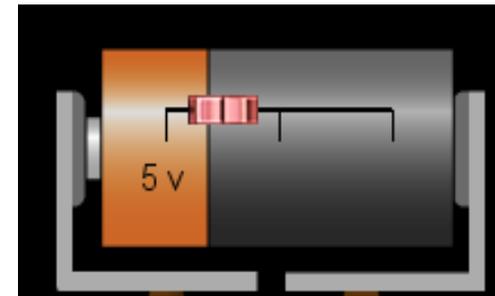
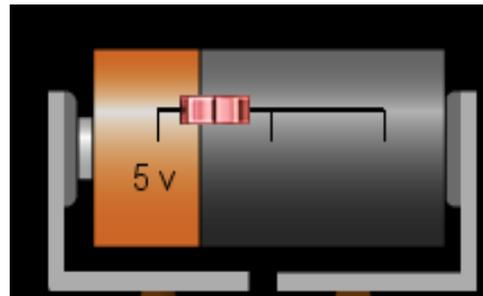
<http://phet.colorado.edu>

Learning Goals: *Students will be able to*

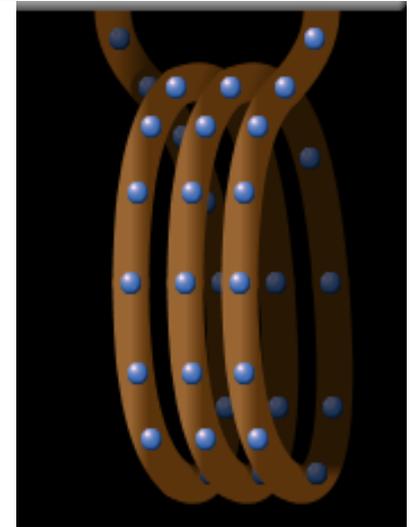
1. Predict the direction of the magnet field for different locations around a bar magnet and electromagnet.
2. Compare and contrast bar magnets and electromagnets
3. Identify the characteristics of electromagnets that are variable and what effects each variable has on the magnetic field's strength and direction.
4. Relate magnetic field strength to distance quantitatively and qualitatively
5. Compare and contrast the fields of gravity and magnets qualitatively

Which would be a more strong magnet?

- A. A**
- B. B**
- C. They would be the same**
- D. Not enough information to decide**



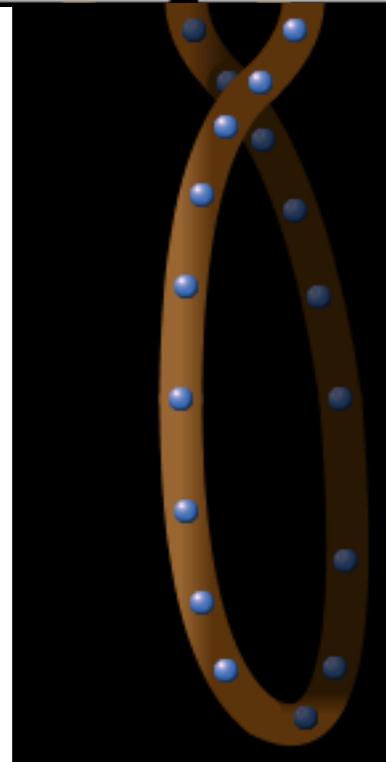
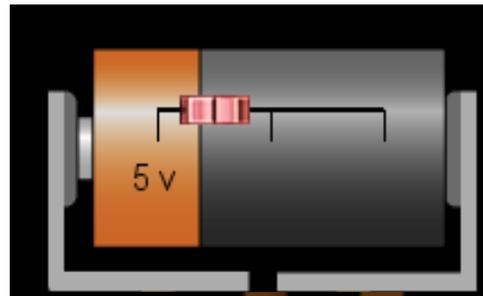
A



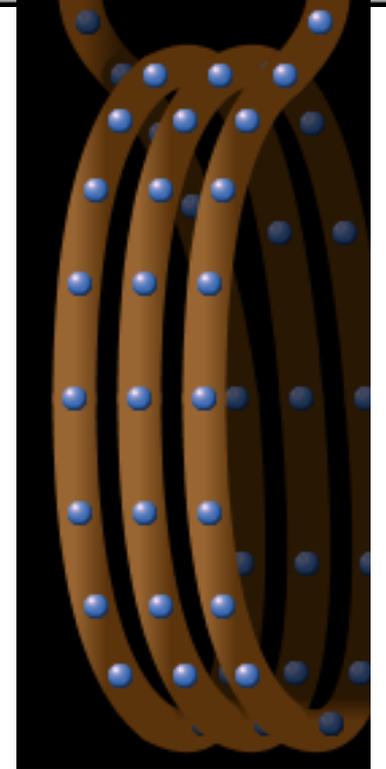
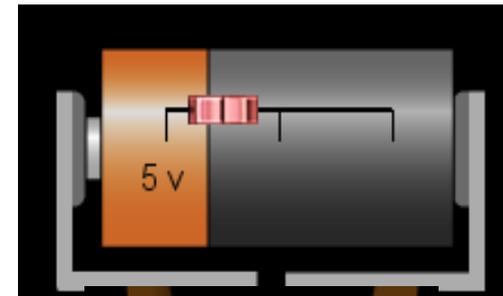
B

Which would be a more strong magnet?

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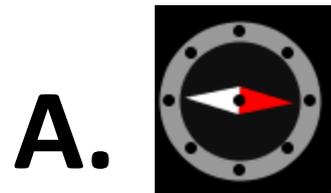


A

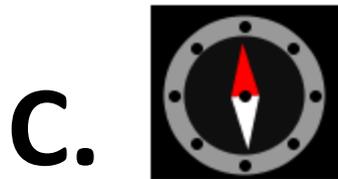


B

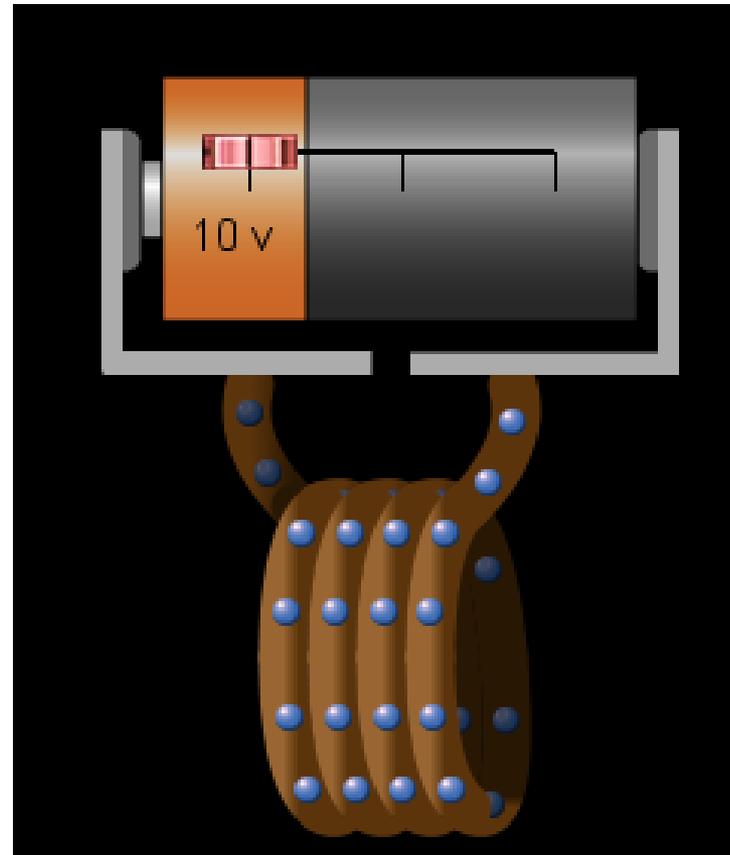
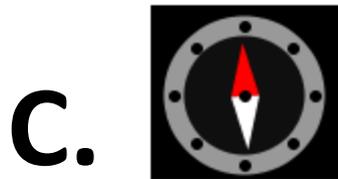
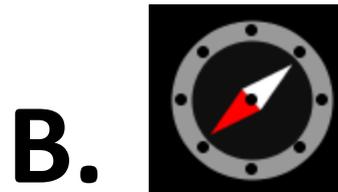
Which compass shows the correct direction of the magnet field at point A?



A



Which compass shows the correct direction of the magnet field at point A?



A