

Coil 400 turns w/Core 6/Pk

Cat.No. B10-2631-W5

Instruction Manual

Back in 1819, Hans Christian Oersted, a professor of the University of Copenhagen, coincidentally discovered the magnetic effect of electric current, so-called electromagnetism. The electromagnetic coil set consist of some solenoids of different turns and different core materials in order to confirm and verify the electromagnet properties like the interrelationship between electric current and magnetism.

[Specification]

Bobbin: $\phi 25 \times 30$ mm, inner hole $\phi 7$ mm
 Coil: Formal wire ($\phi 0.4$ mm), 400 turns, 6 units
 Core: Steel core ($\phi 6.8$ mm x 70mm), 6 units



[Activity] Electromagnetic coil

[Preparation]

Coil : 1, Core (steel): 1

Genecon: 1, Battery : 1, Lead with clip: 2, Some small steel nails or paper clips (To be prepared by school)

[Procedure]

1. Insert core into coil and hold it
 2. Make electromagnet circuit with Genecon or battery and leads.
 3. When the circuit is connected, the coil will pick up some nails.
- * Instead of battery and switch, you can use Genecon, a hand-held generator.

[Try] To find out what happens and what is observed.

1. Change core material from steel to others.
2. Increase speed of rotating a handle of Genecon, or numbers of batteries in the serial connection.

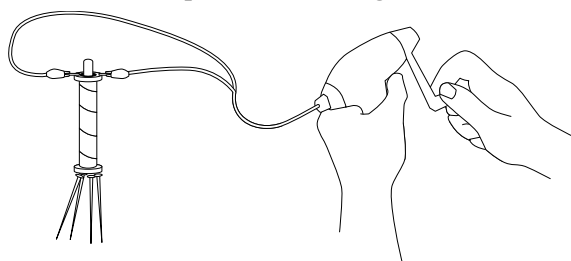


Fig. 1. With Genecon

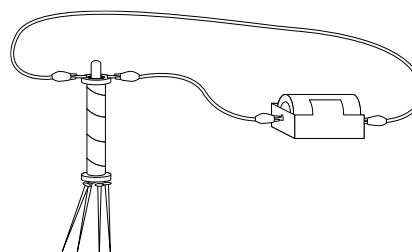


Fig. 2. With Battery

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