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Product Name :

Electromagnet Kit

Product Code :

SLE/EM/13



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Description :

Electromagnet Kit (Product Code: SLE/EM/13) lets students make their own electromagnets from parts and then test what they have built. Coils on plastic spools slide onto iron cores to form either a bar electromagnet or a U-shaped electromagnet, and two magnetic compasses revealthe poles and the strength of the field. Designed for elementary through high school learners and manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, it is an electromagnetic kit for schools in India that packs away into its own plastic storage case with instructions.

Specifications

Parameter	Detail
Coils	2 coils on plastic spools
Cores	One U-shaped iron core and one straight iron core
Compasses	2 magnetic compasses
Leads	A pair of wires
Storage	Plastic storage case
Documentation	Instructions included
Power	One 6-V battery or a DC power supply (not included)
Suitable for	Elementary through high school students

Typical Use

Students usually start with one coil on the straight iron core to make a bar electromagnet. Bringing a compass to each end shows which end behaves as a north pole; swapping the battery connections reverses the poles, which is the key difference from a permanent magnet. They then fit both coils on the U-shaped core, connect them and compare how many small iron objects the U-shaped magnet holds against the bar version, investigating how core shape, number of coils and current affect the magnitude of the electromagnetic force. Older students can relate the pole they find to the direction of winding using the right-hand grip rule.

Connect the battery only while testing, so the coils stay cool and the cell lasts through the lesson, and keep the compasses away from the cores when storing them. Because every part returns to the fitted case, the kit works well as a take-out STEM science kit for Indian classrooms and science clubs where sets move between rooms.

Manufacturer

This kit is manufactured by Jain Scientific Equipments Private Limited under its ScienceLab brand in Ambala, Haryana, where the company produces practical kits for primary, secondary and senior classes. Visit our company profile to learn about the business.

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