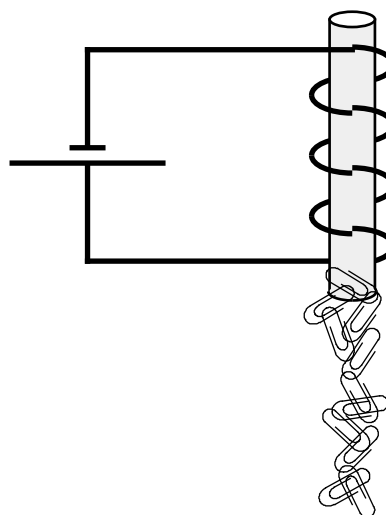


Liverpool Physics Olympics
INTERNATIONAL 98



Faraday Pickup

Aim To construct an electromagnet that can pick up as many paper clips as possible.

Materials 2 1.5 v cells 1 5 m length of bare wire 1 container of paper clips
2 15 cm nails 1 2 m length of tape 1 pair of scissors

Method The electromagnet may be constructed using any method.

Conditions

- The electromagnet must be constructed only from the materials provided.
- The scissors cannot form part of the electromagnet.
- Monitored by a judge, the paper clips must be picked up from a full container and deposited into another container to be counted.

Time limit 25 minutes

Ranking The ranking order will be determined by the maximum number of paper clips deposited into the second container in any single attempt.

Team

Result

Do not write below line

Rank