



Faraday Force

Aim To produce the largest deflection of a compass needle using the materials provided.

Materials 2 batteries 3 m length of wire 4 15 cm nails 1 sheet of paper

Method The materials may be used in any way. Start with the compass needle parallel to the line indicated on the sheet provided. When ready, the team takes their construction to the judges to measure the deflection.

Conditions • No part of the construction can approach closer to the compass than the line indicated on the sheet provided.

Time limit 25 minutes

Ranking The ranking order will be determined by the largest deflection measured by the judges using a calibrated compass.

Team

Result

Do not write below line

Rank