

LIVERPOOL PHYSICS OLYMPICS



Polar Plod

Aim

To move a team member to a position specified by a series of steps specified as distances and compass directions.

Materials

1 metre rule

Method

- Each team stands at a point on the edge of a large circle.
- Following the list of directions given on a separate sheet, a team member moves as directed.
- The directions are given for a polar grid of longitude and latitude
 the North Pole is at the centre of the circle.
- When the directions have been followed, a marshal will determine the accuracy of the team member's movement.

Conditions

- No calculators.
- The metre rule(s) may not be moved.

Time limit

25 minutes.

Ranking

The ranking order will be determined by the distance between the final position of the team member and the position at which he/she should be.

Team Result	1	m
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Do not write below line

Directions

- 1. Move 3 m North (towards the North Pole)
- 2. Move 30 m East
- 3. Move 5 m North
- 4. Move 10 m West
- 5. Move 5m South
- 6. Move 5m East