



Location³

Aim To determine the geocoordinates of a specified object, given the geocoordinates of three surrounding reference points.

Materials 1 metre rule 2 pieces of A4 card

Method Use the materials to make a protractor, sighting device, or theodolite and use triangulation to determine the location of the object.

Conditions

- All team members must remain on the grass at all times.
- No team member is allowed to cross the footpath.
- No GPS receivers may be used.
- The result must be given in the sexagesimal system (degrees, minutes and seconds).

Time limit 25 minutes

Ranking The ranking order will be determined by the difference between the coordinates given and the actual coordinates of the object.

Team

Result

			° ' "
			West
			North

Do not write below line

Rank

NOT TO SCALE

2° 57' 45.6" W
53° 24' 17.8" N



?



2° 57' 50.5" W
53° 24' 14.5" N



2° 57' 45.4" W
53° 24' 14.6" N

NOT TO SCALE