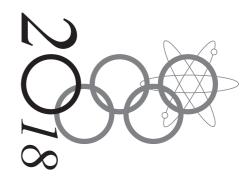


Do not write below line



Rank

Disc Diffraction

Aim	To determine the spacing of tracks on a disc using the diffraction of laser light
Materials	1 Disc 1 Laser 1 Metre Rule
Method	 The disc behaves like a diffraction grating. Diffracted beams are the result of constructive interference between light waves from tracks on the disc. Using geometry and the wavelength of the laser, determine the spacing of the tracks on the disc (give your answer in nm).
Conditions	 The laser must not be pointed at anything other than the disc. The laser must not be moved. The disc must not be rotated. Never stare directly at the laser beam.
Time limit	25 minutes
Ranking	The ranking order will be determined by the difference between the distance given by the team and the correct value.
Team	Result