

Question number	Answer	Accept	Reject	Marks
5 (c)	<p>Any three of:</p> <p>MP1 any mention of repetition / take an average of readings;</p> <p>MP2 vary i to obtain more values ;</p> <p>MP3 plot a graph of <u>$\sin i$ against $\sin r$</u> ; OR Calculate/work out/ find n;</p> <p>MP4 find gradient of graph ; OR Calculate average of n;</p> <p>MP5 sensible experimental precaution / improvement to method (e.g. mark lines on paper, thinner beam, fix block firmly in position, remove anomalies, sharper pencil, use a more precise protractor e.g. $\frac{1}{2}^\circ$);</p>	<p>Ignore reference to critical angle</p> <p>Ignore second glass block</p> <p>Ignore different colours</p>		3

Total 11 marks