



Rugby  
School

Design and Technology

Sixth Form Examination 2015

Mark Scheme

<b>Q1a</b>	<b>Meeting the Requirements</b>		
	Show consideration for the following points: It must be able to support a range of different types of bicycle; It must be unobtrusive when not in use; It must be secure when bicycles are locked to it; It must be safe; It must be suit the environment where it is being used; It must be robust; It must be easy to maintain; It must be aesthetically pleasing; It must be suitable for batch production	1 mark for each point           5 x 1 marks	           Max 5 marks
<b>Q1a</b>	<b>A range of ideas</b>		
	A repeat idea A simple idea An idea style displaying creativity or with additional design features	0 marks 1 mark 2 marks  Up to 5 x 2 marks	           Max 10 marks
<b>Q1a</b>	<b>Quality of Drawings</b>		
	Simple 2D line drawings only Detailed 2D Drawings only Isometric drawings only Detailed, rendered isometric drawings demonstrating well balanced proportions and sensitive line work. A sophisticated combination of different types of drawings with appropriate layout and presentation techniques.	0-2 marks 3-4 marks 5-6 marks  7-8 marks  9-10 marks	           Max 10 marks
<b>Q1a</b>	<b>Annotation</b>		
	Simple labels of features apparent in the drawing. Descriptive terms indicating features not immediately apparent. Pertinent evaluative comments addressing the success of the proposals against the brief.	0-1 mark  2-3 marks  4-5 marks	           Max 5 marks
			Sub-total 30 marks
<b>Q1b</b>	<b>Selection of processes</b>		
	Simple feasible process Outline of process(es) for manufacture reflecting materials chosen and scale of production. Detailed explanation of construction and finishing processes reflecting materials chosen and scale of production.	Up to 2 marks  3-4 marks  5 marks	           Max 5 marks
<b>Q1b</b>	<b>Selection of materials</b>		

	Simple generic terminology (eg. wood metal, Plastic). Specific named materials and finishes. Specific named materials and finishes sympathetically selected and justifications given for their use.	0 marks 1-3 marks 4- 5 marks	Max 5 marks
<b>Q1b</b>	<b>Dimensioning</b>		
	Basic dimensions given for length, width and thickness. Consideration of detailed dimensioning including material thicknesses and stock materials.	3 x 1 mark  4-5 marks	Max 5 marks
<b>Q1b</b>	<b>Quality of drawing</b>		
	Detailed 2D Drawings only Isometric drawings only Rendered isometric drawings indicating constructional details. A sophisticated combination of different types of drawings showing hidden detail and exploded views.	0-2 marks 3-4 marks 5-6 marks 7-10 marks	Max 10 marks
<b>Q1b</b>	<b>Use of appropriate components</b>		
	Use of generic terms Specific named components Specific named components with details of materials appropriate to use	0-1 mark 2-3 marks 4-5 marks	Max 5 marks
			Sub-total 30 marks
			Total 60 marks