Specimen for 2007

International General Certificate of Secondary Education

MARK SCHEME

MAXIMUM MARK: 50

SYLLABUS/COMPONENT: 0445/01, 0446/01

DESIGN AND TECHNOLOGY DESIGN AND COMMUNICATION

Design



1	а	Accept any suitable points - stable in use, lightweight, easy to transport, quick to assemble/fold etc.	1 x 4	4
	b	Accept drawings of any suitable mechanisms – screws, bolts/nuts, rivets, spindles, slots, notches etc.	2 x 2	4
	С	Any suitable ideas.		
		Communication Simple drawings displaying a low standard or limited range of techniques	0-2	
		Clear drawings displaying a good standard and a range of techniques - shading/colour/annotation, etc.	3-4	
		High quality drawings using a wide range of techniques with clear annotation and detail Suitability	5-6	
		Simplistic designs showing outlines only	0-2	
		Rather more detail, sensible solutions that could work Accurate solutions, good fitness for purpose, detailed construction	3-4 5-6	12
				12
	d	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each Selection and justification. (1 + 1)	0-6 2	8
	e	Quality of drawing Poor line quality, proportions, little detail Good line work, use of colour, proportions, some detail High standard throughout with a range of techniques that show clearly all detail	1	
			2-3 4	
		Dimensions Overall dimensions only - 1		
		Additional dimensions - 2	2	
		Construction details		
		A simplistic approach showing little or no detail of construction to be used Most constructional detail may be obvious from overall views or with some	0-2	
		annotation	3-4	
		All constructional detail will be clear with good annotation and additional detail drawings as necessary	5-6	12
	f	Suitable materials stated.	2 2	4
		Appropriate reasons for choice.		4
	g	Suitable method stated. Good detailed description of process, including processes (3) and tools (2).	1 5	6
			J	6
				50

2	а	Accept any suitable points - secure, weather, easy to carry, lightweight, easy access, protects contents etc.	1 x 4	4
	b	Accept names and drawings of any suitable drawing equipment. (1+1) x 2	00	
	С	Any suitable ideas.	2 x 2	4
		Communication Simple drawings displaying a low standard or limited range of techniques	0-2	
		Clear drawings displaying a good standard and a range of techniques - shading/colour/annotation, etc.	3-4	
		High quality drawings using a wide range of techniques with clear annotation and detail	5-6	
		Suitability		
		Simplistic designs showing outlines only Rather more detail, sensible solutions that could work	0-2 3-4	
		Accurate solutions, good fitness for purpose, detailed construction	5-6	12
	d	Evaluation of each of the ideas. At least three evaluations up to 2 marks	0-6	
		each Selection and justification (1 + 1)	2	8
	е	Quality of drawing Poor line quality, proportions, little detail Good line work, use of colour, proportions, some detail High standard throughout with a range of techniques that show clearly all detail	1 2-3 4	
		Dimensions Overall dimensions only - 1 Additional dimensions - 2	2	
		Construction dataile	0-2	
		Construction details A simplistic approach showing little or no detail of construction to be used Most constructional detail may be obvious from overall views or with	3-4 5-6	12
		some annotation All constructional detail will be clear with good annotation and additional detail drawings as necessary		
	f	Suitable materials stated. Appropriate reasons for choice.	2 2	4
	g	Appropriate logo	3	
		Good communication skills Appropriate attachment method	2 1	6
				50

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3	а	Accept any suitable points - weather, firm fixing, little maintenance, transportable etc.	1 x 4	4
	b	Accept any suitable methods - battery, clockwork, wind, solar powered etc.	1 x 4	4
	С	Any suitable ideas.		
		Communication Simple drawings displaying a low standard or limited range of techniques Clear drawings displaying a good standard and a range of techniques - shading/colour/annotation, etc. High quality drawings using a wide range of techniques with clear annotation and detail	0-2 3-4 5-6	
		Suitability Simplistic designs showing outlines only Rather more detail, sensible solutions that could work Accurate solutions, good fitness for purpose, detailed construction	0-2 3-4 5-6	12
	d	Evaluation of each of the ideas. At least three evaluations up to 2 marks	0-6	
		each Selection and justification (1 + 1)	2	8
	e	Quality of drawing Poor line quality, proportions, little detail Good line work, use of colour, proportions, some detail High standard throughout with a range of techniques that show clearly all detail	1 2-3 4 2	
		Dimensions Overall dimensions only - 1 Additional dimensions - 2		
		Construction details A simplistic approach showing little or no detail of construction to be used Most constructional detail may be obvious from overall views or with some annotation	0-2 3-4 5-6	12
		All constructional detail will be clear with good annotation and additional detail drawings as necessary		
	f	Suitable materials stated. Appropriate reasons for choice.	2 2	4
	g	Suitable method stated. Good detailed description of process, including processes (3) and tools (2).	1	
			5	6
				50