## Specimen for 2007

## **International General Certificate of Secondary Education**

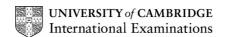
## MARK SCHEME

**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 Clear drawings displaying a good standard and a range of techniques -	0-2	
		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
	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
	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	
		<b>Dimensions</b> Overall dimensions only - 1 Additional dimensions - 2	2	
		Construction details A simplistic approach showing little or no detail of construction to be used	0-2	
		Most constructional detail may be obvious from overall views or with some annotation  All constructional detail will be clear with good annotation and additional	3-4	
		detail drawings as necessary	5-6	12
	f	Suitable materials stated. Appropriate reasons for choice.	2 2	4
	g		1	•
		Good detailed description of process, including processes (3) and tools (2).	5	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	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. High quality drawings using a wide range of techniques with clear annotation and detail	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 each	0-6	
		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	
		<b>Dimensions</b> 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 All constructional detail will be clear with good annotation and additional detail drawings as necessary	0-2 3-4 5-6	12
	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

0445/0446/01SP07 **[Turn over** 

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
	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	
		<b>Dimensions</b> 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 annotation All constructional detail will be clear with good annotation and additional detail drawings as necessary	0-2 3-4 5-6	12
	f	Suitable materials stated. Appropriate reasons for choice.	2 2	4
	g	Suitable method stated.	1	
		Good detailed description of process, including processes (3) and tools (2).	5	6

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