

### **Cambridge Assessment International Education**

Cambridge International General Certificate of Secondary Education

#### **DESIGN AND TECHNOLOGY**

0445/11

Paper 1 Product Design

October/November 2017

MARK SCHEME
Maximum Mark: 50

### **Published**

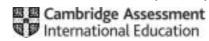
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2017

# Cambridge IGCSE – Mark Scheme **PUBLISHED**

Question	Answer	Marks
1(a)	Accept any <b>four</b> additional suitable points – easy to access, lightweight, stackable, minimal size to carry, points covered, stands by itself. AOVR $1 \times 4$	4
1(b)	Accept drawings of any $two$ securing methods – in holes, slots, clips, rubber bands, grooves. AOVR $2 \times 2$	4

Question	Answer	Marks
2(a)	Accept any <b>four</b> additional suitable points – attractive colour/shape, has impact, easy/comfortable to carry, specific sport, weatherproof. AOVR 1 × 4	4
2(b)	Accept drawings of any $two$ school aspects – model of building, includes school crest, local landmark, local industry. AOVR $2 \times 2$	4

Question	Answer	Marks
3(a)	Accept any <b>four</b> additional suitable points – seen from wide angle, seen in bright / dull light, large numbers, above head height, specific display type. AOVR $1 \times 4$	4
3(b)	Accept drawings of any <b>two</b> number displays – electronic display, LED display, flashing lights, analogue display, cards AOVR $2 \times 2$	4

Question	Answer	Marks
1, 2 and 3 (c)	Any suitable ideas. At least <b>three different</b> ideas for maximum marks. Pro rata if fewer.	12
	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.  3-4 High quality drawings using a wide range of techniques with clear annotation and detail.  5-6 [max 6 marks]	
	Suitability Simplistic designs showing outlines only. Rather more detail, sensible solutions that could work.  Accurate solutions, good fitness for purpose, construction detail.  [max 6 marks]	

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Question	Answer	Marks
1, 2 and 3 (d)	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each. [max 6 marks]	8
	Selection and justification. 1+1 [max 2 marks]	
1, 2 and 3 (e)	Quality of drawing  Poor line quality, proportions, little detail 1 Good line work, use of colour, proportions, some detail. 2–3 High standard throughout with a range of techniques that show clearly all detail. 4 [max 4 marks]	12
	Dimensions 2 or 3 overall dimensions only Additional detail dimensions 1 [max 2 marks]	
	Construction detail A simplistic approach showing little or no detail of construction to be used.  0–2  Most construction detail may be obvious from overall views or from some annotation.  3–4	
	All construction detail will be clear with good annotation and additional detail drawings as necessary.  5–6  [max 6 marks]	
1, 2 and 3 (f)	Suitable <b>specific</b> materials stated. 1+1	4
(1)	Appropriate reasons for choice. 1+1	
1, 2 and 3 (g)	Suitable method described. 1	6
	Good detailed description of: processes 0–3 tools 0–2	