MNN. Arrenne Babers Com

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2012 question paper for the guidance of teachers

0445 DESIGN AND TECHNOLOGY

0445/11

Paper 1 (Design), maximum raw mark 50

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2012 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

| | Page 2 | | Mark Scheme: Teachers' version | Syllabus | Paper |
|---|--------|--|--|---|-------|
| | | | IGCSE – May/June 2012 | 0445 | 11 |
| 1 | (a) | wate | ept any four additional suitable points – easy to cler, appropriate height/position, items easy to acceptes bathroom, etc. | | [4] |
| | (b) | | ept drawings of any two suitable places – on shelf, dow ledge, in drawer, etc. | on wall, on (2x2) | [4] |
| | (c) | marl Con Simple tech Cleat tech High anno Suit Simple Rath | suitable ideas. At least three different ideas for ks. Pro rata if fewer. nmunication ple drawings displaying a low standard or limited iniques ar drawings displaying a good standard and a siniques – shading /colour/annotation etc a quality drawings using a wide range of technique obtation and detail sability plistic designs showing outlines only her more detail, sensible solutions that could work the urate solutions, good fitness for purpose, detailed contents. | ed range of (0-2) a range of (3-4) s with clear (5-6) (0-2) (3-4) | [12] |
| | (d) | mar | luation of each of the ideas. At least 3 evaluation ks each ection and justification. (1+1) | ons up to 2 (0-6) (2) | [8] |
| | (e) | Poo Goo High clea Dim Con A si be u Mos with All o | r line quality, proportions, little detail of line work, use of colour, proportions, some detail of standard throughout with a range of techniques rly all detail of detail of standard throughout with a range of techniques rly all detail of detail of structions 2 or 3 overall dimensions only - 1 Additional detail dimensions - 2 of struction details of mplistic approach showing little or no detail of consisted of constructional detail may be obvious from overal some annotation constructional detail will be clear with good annotational detail drawings as necessary | (4) (2) struction to (0-2) all views or (3-4) | [12] |
| | (f) | | able specific materials stated. ropriate reasons for choice. | (2) (2) | [4] |
| | (g) | | able method stated. d detailed description of: processes tools. | (1) (3) (2) | [6] |

[Total: 50]

| | Page 3 | | Mark Scheme: Teachers' version | Syllabus | Paper |
|---|--------|---|--|---|-------|
| | | | IGCSE – May/June 2012 | 0445 | 11 |
| 2 | (a) | simp | ept any four additional suitable points – appealing ble instructions, reflect issue, can be folded, easily dy for children's play, etc. | | [4] |
| | (b) | was | ept any four environmental issues – water co ting energy, loss of forests, pollution, use of finit oon footprint, etc. | | [4] |
| | (c) | mari Con Simi tech Clea tech High anno Suit Simi Rath | suitable ideas. At least three different ideas for ks. Pro rata if fewer. nmunication ple drawings displaying a low standard or limited iniques ar drawings displaying a good standard and a miques – shading /colour/annotation etc a quality drawings using a wide range of technique obtation and detail trability plistic designs showing outlines only mer more detail, sensible solutions that could work the urate solutions, good fitness for purpose, detailed contracts. | ed range of (0-2) a range of (3-4) s with clear (5-6) (0-2) (3-4) | [12] |
| | (d) | mar | luation of each of the ideas. At least 3 evaluation ks each ection and justification. (1+1) | ons up to 2 (0-6) (2) | [8] |
| | (e) | Poo Goo High clea Dim Con A si be u Mos with | r line quality, proportions, little detail of line work, use of colour, proportions, some detail of standard throughout with a range of techniques rly all detail of detail of standard throughout with a range of techniques rly all detail of detail of detail dimensions only - 1 Additional detail dimensions - 2 of struction details of mplistic approach showing little or no detail of consisted of constructional detail may be obvious from overal some annotation constructional detail will be clear with good annotation constructional detail will be clear with good annotation detail drawings as necessary | (4) (2) struction to (0-2) all views or (3-4) | [12] |
| | (f) | | able specific materials stated. ropriate reasons for choice. | (2) (2) | [4] |
| | (g) | | able method stated. od detailed description of: processes tools. | (1) (3) (2) | [6] |

[Total: 50]

| | | IGCSE – May/June 2012 | 0445 | 11 |
|---|-----|--|-----------------------------|------|
| 3 | (a) | Accept any four additional suitable points – will n revolving, easy to clean, hygienic, adjustable, for | ot tip over, | |
| | | accessible, handle keeps cool, etc. | (1x4) | [4] |
| | (b) | Accept any two mechanisms – clockwork, elect offset/wheel turning handle, vertical/horizontal rotating s | [4] | |
| | (c) | Any suitable ideas. At least three different ideas for marks. Pro rata if fewer. Communication | | |
| | | Simple drawings displaying a low standard or limite techniques | ed range of (0-2) | |
| | | Clear drawings displaying a good standard and techniques – shading /colour/annotation etc | a range of (3-4) | |
| | | High quality drawings using a wide range of technique annotation and detail Suitability | s with clear (5-6) | |
| | | Simplistic designs showing outlines only | (0-2) | |
| | | Rather more detail, sensible solutions that could work Accurate solutions, good fitness for purpose, detailed co | (3-4) onstruction (5-6) | [12] |
| | (d) | Evaluation of each of the ideas. At least 3 evaluation marks each | ons up to 2 (0-6) | |
| | | Selection and justification. (1+1) | (2) | [8] |
| | (e) | Quality of drawing Poor line quality, proportions, little detail | (1) | |
| | | Good line work, use of colour, proportions, some detail High standard throughout with a range of techniques clearly all detail | (2-3) s that show (4) | |
| | | Dimensions 2 or 3 overall dimensions only - 1 Additional detail dimensions - 2 Construction details | (2) | |
| | | A simplistic approach showing little or no detail of cor be used | (0-2) | |
| | | Most constructional detail may be obvious from over with some annotation | all views or (3-4) | |
| | | All constructional detail will be clear with good ann | otation and ُ | [40] |
| | | additional detail drawings as necessary | (5-6) | [12] |
| | (f) | Suitable specific materials stated. Appropriate reasons for choice. | (2) | [4] |
| | | Appropriate reasons for choice. | (2) | [+] |
| | (g) | Suitable method stated. | (1) | |
| | | Good detailed description of: processes tools. | (3) (2) | [6] |
| | | | | |

Mark Scheme: Teachers' version

Syllabus

Paper

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