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.

- CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2009 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.
<table>
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<th>Mark Scheme: Teachers’ version</th>
<th>Syllabus</th>
<th>Paper</th>
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</table>
| 1 | **(a) (i)** Suitable sheet material named  
   e.g. stainless steel, aluminium, mild steel  
   Suitable reason for choice given  
   e.g easy to clean, can withstand heat | (1) | |
|   | **(b) (i)** Cutting and finishing described  
   Details of tools, equipment and safety precautions (if appropriate) | (0–3) | (0–3) |
|   | **(ii)** use of template and drilling process described  
   Details of tools, equipment and safety precautions (if appropriate) | (0–3) | (0–3) |
|   | **(iii)** Joining of method described  
   Details of tools, equipment and safety precautions (if appropriate) | (0–3) | (0–3) |
|   | **Total: 20** | | |
| 2 | **(a)** Suitable material named  
   e.g. plywood, MDF  
   Suitable reason for choice given  
   e.g. easily shaped, low cost, good surface for painting | (1) | |
|   | **(b) (i)** Cutting and finishing described  
   Details of tools, equipment and safety precautions (if appropriate) | (0–3) | (0–3) |
|   | **(ii)** Joining of method described  
   Details of tools, equipment and safety precautions (if appropriate) | (0–3) | (0–3) |
|   | **(iii)** Applying painted finish described  
   Details of tools, equipment and safety precautions (if appropriate) | (0–3) | (0–3) |
|   | **Total: 20** | | |
| 3 | **(a)** Suitable thickness stated  
   e.g. 1 – 2 mm, 1000 – 2000 microns  
   Suitable reason for choice given  
   e.g. related to strength/stability of material and its ability to support weight of leaflets | (1) | |
|   | **(b) (i)** Appropriate slots shown in part B  
   Method shows how given slots in part A slot into part B  
   Slot and tab to fix base in place  
   Clear description of method | (0–2) | (0–2) |
|   | **(ii)** Making and using stencil described  
   Details of tools, equipment and safety precautions | (0–3) | (0–3) |
|   | **(c)** Appropriate scale used  
   Front  
   Sides  
   Base  
   Slots and tab | (1) | (1) |
|   | **Total: 20** | | |
Section B

4 (a) Appropriate explanation  
e.g. related to improved stability and providing support for top frame  
(0–2) [2]

(b) Problem 1 described  
Problem 2 described  
e.g. problems related to poor stability and weak support for top  
(0–2) [4]

(c) Explanation of how problem 1 could be overcome  
Explanation of how problem 2 could be overcome  
e.g. making bottom frame larger, adding additional support for top  
(0–3) [6]

(d) Situation has been analysed and relevant issues / points identified  
Explanation of why issues / points are considered relevant  
Specific example or evidence used to support answer  
(0–3) [8]

[Total: 20]

5 (a) Appropriate explanation  
e.g. related to enabling packaging to hang from a display rack  
(0–2) [2]

(b) Problem 1 described  
Problem 2 described  
e.g. related to packaging not hanging straight and poor security for MP3 player  
(0–2) [4]

(c) Explanation of how problem 1 could be overcome  
Explanation of how problem 2 could be overcome  
e.g. solutions related to moving position of hanging slot so that packaging will balance. Packaging is secured by gluing or shrink wrapping.  
(0–3) [6]

(d) Situation has been analysed and relevant issues / points identified  
Explanation of why issues / points are considered relevant  
Specific example or evidence used to support answer  
(0–3) [8]

[Total: 20]

6 (a) Appropriate explanation  
e.g. enables parts to be assembled and disassembled  
(0–2) [2]

(b) Problem 1 described  
Problem 2 described  
e.g. problems related to small are for attaching top and rail, poor stability  
(0–2) [4]
Section C

7 (a) One pre-conceived idea presented
OR
The development and selection of a range of ideas into a single design proposal which would appear to work but lacks some technical details
OR
The development and selection of a range of ideas into a single design proposal that includes sufficient technical details to show that the proposed solution would clearly work
Clarity and quality of sketching and explanatory notes
Evaluation (reasons for selection)

(b) As for part (a)

(c) As for part (a)

(d) As for part (a)

(e) The drawing will exhibit a reasonable standard of outcome and show some of the required design features
OR
The drawing will exhibit a good standard of outcome and show the design features required to make the product function as intended
OR
The drawing will be completed to a high standard of outcome and fully show the design features required to make the product function as intended
Some use made of colour and tone to enhance the visual impact of the drawing
OR
Good use has been made of the colour and tone to enhance the visual impact of the drawing
OR
Very good use has been made of colour, tone and material representation to enhance the visual impact of the drawing

Questions 8 and 9 as for Question 7

[Total: 80]