

General Certificate of Education
June 2008
Advanced Subsidiary Examination



DESIGN AND TECHNOLOGY: PRODUCT DESIGN PD3D
(3-D DESIGN)
Unit 3 Design and Market Influences

Tuesday 20 May 2008 9.00 am to 10.30 am

For this paper you must have:

- a lined answer book (AB08) which is provided separately
- normal writing and drawing instruments.

You may use a calculator.

Time allowed: 1 hour and 30 minutes

Instructions

- Use black ink or black ball-point pen. Use pencil and coloured pencils only for drawing.
- Write the information required on the front of your answer book. The *Examining Body* for this paper is AQA. The *Paper Reference* is PD3D.
- Answer **all** questions.
- Two sheets of A3 paper are provided for use with **Question 2**. No further sheets are to be used.
- Securely attach the two sheets of A3 paper to your answer book at the end of the examination.

Information

- The maximum mark for this paper is 100.
Four of these marks will be awarded for using good English, organising information clearly and using specialist vocabulary where appropriate.
- The marks for questions are shown in brackets.

Advice

- Illustrate your answers with sketches and/or diagrams wherever you feel it is appropriate.

Answer **all** questions.

You are advised to spend about 20 minutes on **Question 1** and about 1 hour 10 minutes on **Question 2**.

- 1 (a) Using examples, explain the purpose of the stages of the design process listed below.
- (i) Writing the project brief *(4 marks)*
 - (ii) Carrying out market research *(4 marks)*
 - (iii) Evaluation and testing *(4 marks)*
- (b) Using examples, explain what a furniture designer would use the following for:
- (i) a full-size mock up, *(4 marks)*
 - (ii) a working drawing. *(4 marks)*

Use the two separate A3 sheets provided to answer **Question 2**.

2 You are asked to produce design ideas for a contemporary chair or stool.
Your designs should meet the following specification:

- be suitable for an item to be displayed in an exhibition or shop specialising in contemporary Eco furniture
- be a functional chair or stool
- be suitable for one off or limited batch production
- make use of sustainable materials.

(a) On sheet **1** produce a range of annotated initial design ideas for a chair or stool. *(15 marks)*

(b) On sheet **2** develop a final design solution for a chair or stool.

Your final design should include the following:

- a final presentation drawing
- details of construction
- details of materials and components
- appropriate dimensions
- how your design meets the specification, especially detailing how the product is sustainable.

Marks will be awarded for:

- | | |
|---------------------------------------------------|-------------------|
| (i) quality of communication | <i>(10 marks)</i> |
| (ii) originality and innovation of product | <i>(10 marks)</i> |
| (iii) appropriateness of materials and components | <i>(10 marks)</i> |
| (iv) methods of construction | <i>(10 marks)</i> |
| (v) dimensions and dimensioning | <i>(6 marks)</i> |
| (vi) details of finish | <i>(5 marks)</i> |
| (vii) specification criteria met. | <i>(10 marks)</i> |

END OF QUESTIONS

There are no questions printed on this page