

GCSE 2004

June Series



Mark Scheme

Design and Technology: Textiles Technology *(3547 – Full Course Higher)*

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation meeting attended by all examiners and is the scheme which was used by them in this examination. The standardisation meeting ensures that the mark scheme covers the candidates' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for the standardisation meeting each examiner analyses a number of candidates' scripts: alternative answers not already covered by the mark scheme are discussed at the meeting and legislated for. If, after this meeting, examiners encounter unusual answers which have not been discussed at the meeting they are required to refer these to the Principal Examiner.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of candidates' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

The answers given in the following mark schemes are neither exhaustive nor exclusive. Candidates whose answers do not appear directly on the mark scheme, but who have demonstrated knowledge, understanding, or skills relevant to the question will receive appropriate credit for their answers.

Further copies of this Mark Scheme are available from:

Publications Department, Aldon House, 39, Heald Grove, Rusholme, Manchester, M14 4NA
Tel: 0161 953 1170

or

download from the AQA website: www.aqa.org.uk

Copyright © AQA 2004 and its licensors

COPYRIGHT

AQA retains the copyright on all its publications. However, registered centres for AQA are permitted to copy material from this booklet for their own internal use, with the following important exception: AQA cannot give permission to centres to photocopy any material that is acknowledged to a third party even for internal use within the centre.

Set and published by the Assessment and Qualifications Alliance.

The Assessment and Qualifications Alliance (AQA) is a company limited by guarantee registered in England and Wales 3644723 and a registered charity number 1073334. Registered address AQA, Devas Street, Manchester. M15 6EX.

Dr Michael Cresswell Director General

GENERAL CERTIFICATE OF SECONDARY EDUCATION

Summer Examination 2004

DESIGN AND TECHNOLOGY: TEXTILES TECHNOLOGY**Full Course – Higher Tier****Response to be awarded credit**

NB This mark scheme is intended as a guide to the type of answer expected but is not intended to be exhaustive or prescriptive. If candidates offer other answers which are equally valid **they must be given credit**.

Many responses at this level are assessed according to the **quality** of the work rather than the number of points included. The following level descriptors are intended to be a guide when assessing the quality of a candidate's response.

- Level 1** The candidate has a basic but possibly confused grasp of the issues. Few correct examples are given to illustrate points made. This candidate does not have a clear idea of what s/he is talking about
- Level 2** The candidate has some knowledge but there will be less clarity of understanding. Some correct examples given to illustrate points made. This candidate knows what s/he is talking about but is confused in part.
- Level 3** This candidate has a thorough understanding of the issues and has provided relevant examples to support the knowledge shown. This candidate knows what s/he is talking about.

Question 1

- (a) e.g. no longer considered as workwear, has become socially acceptable as a high fashion fabric, especially since 1950s when it was worn by James Dean. May refer to specific fashion designers who use denim in various ways. Now highly decorated, denim jeans accepted almost everywhere. Used for furnishing products. Reference to new finishes e.g. stonewash, variety of blends.

Marks awarded as follows:

- | | | |
|-----------------|---|-----------------------------|
| Level 1: | Simple statements, e.g. ‘everybody wears it’ | 1 mark |
| Level 2: | Understanding that it is now used by many designers in many ways and is considered acceptable but will not understand background to its rise in popularity. | 2-3 marks |
| Level 3: | Gives background to denim’s rise in popularity and shows awareness of social issues. Aware that now used by top fashion designers. | 4-5 marks
5 marks |
- (b) e.g. give ideas for product shape /size, give an indication of which have sold well, may give solutions for design problems, factors such as ergonomics and safety may have been accounted for, design is tried and tested, reduced design /manufacturing costs, updating of popular design that sells well.
- Any 6 points, a point may be an explanation of a point or an example to illustrate point made - 1 mark each **6 marks**
- (c) e.g. use of database, visiting catwalk shows, trade and other exhibitions, using internet, street fashion.
Trade journals, catwalk shows on TV, coverage of catwalk shows in newspapers/ magazines. **Not** questionnaires. Accept market survey with clarification
- 2 points 1 mark each plus 1 mark for some detail of each **4 marks**
Total 15 marks

Question 2

- (a) This is about computer **design** packages it does **not** include CAM, spreadsheets, documents, e-mail, advantages of using computers.
e.g. software packages help designers draw accurately, to see the products in 3D, to rotate the design and view it from all angles, to make changes and modifications quickly and easily, to experiment with different patterns, textures and colourways, to develop basic or standardised designs, to improve the quality of the design, to use simulations to test the design. Use of Internet but must justify this.

Marks awarded as follows:

Level 1:	Simple statements, e.g. 'can make designing quicker'	1-2 marks
Level 2:	Minimal detail of one or two methods or one method explained in detail	3-4 marks
Level 3:	Detail of two or three different uses. There may be more information about 2 methods or less about 3 methods.	5-6 marks
		6 marks

- (b) e.g. flammable fabrics, small components that can become loose, cords round necks, trailing belts, zips in trousers for small boys, over loose/ long garments that cause tripping, use of non-toxic dyes if qualified. Not QC issues.

Marks awarded as follows:

	Simple explanation e.g. 'don't use small components.	1 mark
	More detailed explanation which gives area of concern, explains why it is a concern and suggests ways of avoiding it.	2 marks
	2 areas of concern, 2 marks each	4 marks

- (c) (i) 2 sketches to show different initial ideas for product. NB Candidates are not to be penalised if they do not use pencil.

Marks awarded as follows:

	Weak unimaginative ideas presented. Little detail shown, or for decoration only.	1 mark each
	Unimaginative design with some detail, limited appeal to target market. May be just product without decoration.	2 mark each
	A quality design which will appeal to target market. Some attempt to be imaginative.	3 marks each
	A quality design with strong appeal to target market. Evidence of originality. It will be clear what is intended.	4 marks each
		8 marks

- (ii) Candidate should evaluate selected design for intended end use as considered by children and parents who might choose to buy it and /or in relation to design specification.

Marks awarded as follows:

Simple statements, e.g. ‘Children will like the design’.
‘It’s attractive/ ‘eye- catching’, ‘It has potential for more development’.

1-2 marks

More detailed statements with example e.g. ‘the product can be used for many different occasions/ seasons’. References to child/ child’s age, references to style features, reference to manufacturing.

3-5 marks

For 5 marks, should refer to 2 or more areas.

5 marks

- (d) **Final design** for product to include:

Materials poor use of fabric /inappropriate components, do not reflect theme

1 mark

sound use of fabrics /other materials but will not be used to advantage/ may lack clear indication of what they are

2 marks

good choice of other materials, may not be a wide choice but used effectively

3 marks

3 marks

Printing and /or dyeing & special effects little indication of anything special, will typically describe fabric bought.

1 mark

e.g. stonewash, bleaching, tie-dye, stencilling, printing, fabric paints, dip dyeing, batik choice is pedantic, does not make product original. May not be appropriate.

2 marks

Used effectively /imaginatively, mature and sensitive choice

3 marks

3 marks

Decoration e.g. embroidery, appliqué, beading, lace/ braids/ trims, buttons, fabric manipulation, fringing, patchwork, pockets, top-stitching, fraying	little detail shown, lacks clarity	1 mark
	Clearly shown but may not be most appropriate for product or interesting	2-3 marks
	clearly shown and appropriate for product, may include large scale of section involved	4-5 marks 5 marks

Quality of design

The following should be considered:

Modern, original and imaginative design, balanced composition/
effective use of space, effective use of theme, proportions, appropriate
for intended use, ability of product to be manufactured

Marks awarded as follows:

Level 1	Lack of detail, unimaginative design which does not clearly relate to design, poor use of space	1-2 marks
Level 1/2	Unimaginative design with some thought given to intended end use or target market. Relates to denim but may not be clear, overall balance weak. Product may not be easy to manufacture.	3-4 marks
Level 2	Sound design related to denim with clear detail about product and end use- this may be inappropriate in places e.g. a top with no fastening and not stretchy fabric. Design lacks some imagination. Overall composition may be weak. Product may have some weaknesses.	5-7marks
Level 2/3	Product will have strong appeal to target market, will be fashionable and likely to sell. Good quality design which will work. for product suitable for end use. Space used effectively. Very good composition.	8-10 marks 10 marks

Quality of Presentation**Marks awarded as follows:**

Level 1	Lack of care in presenting work, candidate will not communicate detailed information about product.	1 mark
Level 2	Candidate has taken care with presentation and labelling and most information about product is clear.	2 marks
Level 3	Well presented showing detail of product, labelling is clear and the candidate has clearly communicated what is intended.	3 marks 3 marks
		Total 47 marks

Question 3

- (a) e.g. hardwearing, available in various weights, does not require special care, strong, can be decorated in various ways including bleaching, aesthetically pleasing, can be stiff or softer according to weight and finishes.

Marks awarded as follows:

- | | | |
|-----------------|---|-----------------------------|
| Level 1: | Minimal detail of fabric, will probably give obvious fibre and /or fabric properties with little consideration of how they relate to the product. | 1 mark |
| Level 2: | Some detail of appropriate fabric /fibre properties which are related back to product but there will be some lack of clarity about this. May be some inappropriate reference to fibre / fabric properties | 2-3 marks |
| Level 3: | Detail of appropriate fabric /fibre properties together with detailed explanation of appropriateness for end use. | 4-5 marks
5 marks |
- (b) (i) Twill weave **1 mark**
- (ii) e.g. Diagonal weave gives texture/ pattern 1 mark
 Use of coloured warp 1 mark
 White weft or different colour 1 mark
 Weave is strong 1 mark
 Makes fabric hardwearing 1 mark
 Can be used for heavy duty products 1 mark
 Fabrics tend to be heavy 1 mark
 Can be used for products which require weight 1 mark
 Resists snagging 1 mark
 Resists soiling 1 mark
- 2 characteristics, 2 marks each **4 marks**
- (iii) Gives stretch qualities 1 mark
 e.g. Make fabric more comfortable in wear /better fitting /shape retention or crease resistant. 1 mark
- 2 marks**

- (c) Accept words or drawings
Candidates should describe the wash, drying, ironing and other aspects of care, e.g. no bleach, appropriate to the product designed.
Points of explanation may relate to type of product, decorative techniques used, colour of fabric as appropriate.
Accept anything between 40°C and 60°C wash code (with or without bars), 2 dots/ 3dots iron.
May need to refer back to design for hand wash/ tumble dry.
- Minimal detail not all of which is appropriate for product. 1-2 marks
- Detail of appropriate methods which relate to product.
Some explanation for recommendations may be given. 3-4 marks
- For 4 marks, need to refer to at least 3 aspects **4 marks**
- (d) e.g. references to colour, fibre content, qualities of any used for decorative techniques (transparent, shiny, textured), strength.
- 2 points, 1 mark each or 1 quality with explanation. **2 marks**
- (e) (i) e.g. bags, cushions, hats, storage products, shoes, adult clothes to children’s clothes, craft items. **Not** ‘clothes’ or ‘household items’.
- 2 points 1 mark each **2 marks**
- (ii) e.g. environmental considerations, fashion trends, cost effectiveness, pockets used as a feature/ other features used as part of design.
- 2 points 1 mark each plus 1 mark for expansion / explanation of each point **4 marks**
- Total 24 marks**

Question 4**(a) Response to be awarded credit**

To help ensure that materials /components are available, to meet delivery dates, efficiency of manufacture in terms of cost /speed /order of work, use of machinery /skills of labour force.

Any 3 points, a point may be an expansion of a point made, 1 mark each **3 marks**

- (b) (i) Candidate should refer to *own* product and identify three quality control issues e.g. seams straight and even width, fabric checked for quality, pockets evenly sized and correctly placed, fastenings evenly spaced /strongly attached. Final inspection checks are also acceptable. No fabric testing/ references to 'correct' fabric/ components.

Marks awarded as follows:

Simple statements e.g. 'make sure seams sewn strongly'. **1 mark**

More detailed explanation with example(s). This candidate has a sound understanding of the concept of QC and has identified a specific area of the product and given clear information about quality manufacture. **2 marks**

3 areas for QC, 2 marks each **6 marks**

- (ii) Candidate should evaluate product designed in terms of value for money. e.g. hardwearing fabric will last a long time, adjustable straps allow for growth of child, simple design will not date, can be washed frequently/ does not need special cleaning care, can be passed on to other children, cost – reasonable, parents can afford and can wear for a long time.

Marks awarded as follows:

Candidate may give a list of six points, 1 mark each **or**
Give fewer points with some detail about each.

6 marks
Total 15 marks

Question 5**(a) (i) Response to be awarded credit**

2 different finishes should be shown in relation to an edge.
e.g. embroidered edge, binding, fraying, facing, piping, frill, top-stitch, double machined seam, hem, applied trim, decorative overlocking. Must be an edge, not a corner.

Marks awarded as follows:

Very basic sketch, little clarity of what is intended, will possibly not be related to an edge. 1 mark

Clear sketch showing finish related to an edge 2 marks
2 edges, 2 marks each **4 marks**

(ii) Clear details of how to work the technique should be given.
Notes and /or diagrams may be used. Must give credit for acceptable response even if (i) incorrect.

Marks awarded as follows:

Level 1: Very basic detail with little explanation of what is intended, explanation confused. This candidate displays little knowledge and is unable to explain method. 1 mark

Level 2: Basic detail, explanation adequate and would mostly achieve desired effect. Candidate has a good grasp of the method. 2 marks

Level 3: Detailed explanation which would achieve desired result. Candidate understands and can clearly explain technique. 3-4 marks
4 marks

(b) e.g. Overlocked seam, double machined/ flat fell/ run and fell seam, French seam. Open seam with zigzag.
Candidate may describe the making of the seam but this is not essential.
Hems not accepted.

Marks awarded as follows:

Basic description which lacks clarity and may not be effective at preventing fraying 1-2 marks

Detailed information about an appropriate seam.
The candidate has considered fabric and product. 3-4 marks
4 marks

Total 12 marks

Question 6

- (a) (a) **e.g. designer shops** target wealthier consumers, products are exclusive, limited market, higher prices for high quality, limited number of outlets.
- (b) **e.g. high street chain store** (e.g. M&S, Next, Mark One, TK Maxx, Miss Selfridge) makes products available to more consumers, reasonably priced whilst still delivering quality, some consumers put off because products lack exclusivity, large number of outlets, can try things on, easy to return goods.
- (c) **e.g. mail order** makes products available to wide consumer market, some exclusivity, can't 'see before you buy', problems if returns necessary, easier than visiting shops for some groups of consumers, postage and packing extra cost.
- (d) **e.g. market stall** sells products usually below shop prices, goods may be seconds or sub-standard but still of reasonable quality for price paid. May be difficult to return goods if stall holder is not a 'regular' at the market. Often 'cash only' sales, goods may not be displayed well, often unable to try on, limited range of sizes. Bustle of market can be an attraction to some people.

Level 1: Simple statements e.g. 'shops are easier to get to', 'products are expensive'. Candidate typically does not consider pros and cons of all methods and will be repetitive. This candidate will tend to deal superficially on a only a few areas and offers little information, many issues will be ignored 1 mark

Level 2: More detailed information with example(s). This candidate has some understanding of issues at a basic level or may have more detailed understanding of a few areas. 2 marks

Level 3: Sound understanding of pros and cons of all types of outlet with appropriate and different examples given to illustrate points made across a number of areas. 3 marks

4 outlets, 3 marks each

Total 12 marks

Total marks on Paper 125