

# GCSE 2004

## *June Series*



## Mark Scheme

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

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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.*

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**ASSESSMENT AND QUALIFICATIONS ALLIANCE**  
**GENERAL CERTIFICATE OF SECONDARY EDUCATION**

Summer Examination 2004

DESIGN AND TECHNOLOGY: TEXTILES TECHNOLOGY

**Full Course – Foundation Tier**

**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) Candidate is expected to analyse possible reasons why the products are not selling.

**Do not** accept reference to drawing e.g. leg length, no fastening

- (i) Trousers: e.g. fringing not fashionable, no pockets, too plain, shape does not reflect current fashions. Not made well- fraying.
- (ii) Cushion: tassels not fashionable, shape traditional, lack of decoration comfort issues e.g. rough.

**Marks awarded as follows:**

1 mark for simple statement, e.g. ‘no decoration’

2 marks for more detailed statement, e.g. cushion lacks interest and is not fashionable

2 products, 2 marks each

**4 marks**

- (b) (i) Button fastening

**1 mark**

- (ii) An alternative fastening should be given, e.g. zip, ties, poppers

**1 mark**

- (iii) Any 2 appropriate reasons for choice of alternative fastening related to product and /or end use, e.g. zip lies flatter, ties are more decorative.

2 reasons 1 mark each

**2 marks**

- (c) e.g. what colours /weights are fashionable /available, fibre content, patterns /designs on fabrics, how other designers are /have used them, thickness, how manipulative, suitability for product, environmentally friendly issues.

**Not** properties or testing.

3 points 1 mark each

**3 marks**

**Total 11 marks**

Question 2

- (a) This question must relate to designing.  
 e.g. software packages help designers draw accurately to see the products in 3-D, 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  
**Not** Internet without justification.  
**Not** spreadsheets or documents.

**Marks awarded as follows:**

Simple statement, e.g. 'makes designing quicker'	1 mark
More detailed statement which gives some expansion of point made	2 marks
2 ways of using computer in designing	2 marks each
	<b>4 marks</b>

- (b) e.g. flammable fabrics, small components that can become loose, cords around necks, trailing belts, zips in trousers for small boys.  
 Non irritating fabrics (rubbing), toxic dyes.  
**Not** testing.

**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
	<b>4 marks</b>

- (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 marks 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
	<b>8 marks</b>

**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:**

<b>Level 1</b>	Lack of detail, unimaginative design which does not clearly relate to theme, poor use of space on product.	1-2 marks
<b>Level 1/2</b>	Unimaginative design with some thought given to intended end use and target market, relates to denim but may not be clear, overall balance weak. Product may not be easy to manufacture.	3-4 marks
<b>Level 2</b>	Sound design related to denim with clear detail about product and end-use -this may be inappropriate in places e.g. top with no fastening and not a stretchy fabric, ability to be worn. Design lacks some imagination but is likely to be popular with target market. Overall composition may have some weakness.	5-7 marks
<b>Level 2/3</b>	Good quality design that will work. Very good composition. Product will have strong appeal to target market. Will be fashionable and likely to sell well.	8-10 marks <b>10 marks</b>

**Quality of Presentation**

Lack of care in presenting work, candidate will not communicate detailed information about product. 1 mark

Candidate has taken care with presentation and labelling and most information about product is clear. 2 marks

Well presented showing detail of product, labelling is clear and the candidate has clearly communicated what is intended. 3 marks  
**3 marks**

- (e) (i) e.g. embroidery, tie -die, batik, printing, use of beads, piping  
1 appropriate decorative technique as in 2d **1 mark**

- (ii) Clear details of how the technique should be given.  
Notes and/ or diagrams may be used.

**Marks awarded as follows:**

**Level 1** Very basic detail with few notes/ diagrams to explain what is intended, explanation confused. Method may not match technique named. This candidate displays little knowledge and is unable to explain method. Information is confused. 1-2 marks

**Level 2** Basic detail with supporting notes/ diagrams, explanation adequate and would mostly achieve desired effect. The method may not exactly match the named technique. This candidate has a good grasp of the method. 3-4 marks

**Level 3** Detailed explanation with supporting notes/ diagrams. Explanation would achieve desired result. Detailed information about method. Candidate understands and can clearly explain technique. 5-6 marks

**6 marks**  
**Total 48 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, distressing and fraying, stiff or soft according to weight and finishes. Aesthetically pleasing. Can add other fibres to improve qualities.

**Not** cost

Reasons should be related to candidate's product.

**Marks awarded as follows:**

Simple statement, e.g. 'Denim is strong' 1 mark

More detailed statement e.g. 'denim is strong so can be washed a lot'  
3 reasons, 2 marks each **6 marks**

- (b) e.g. twill weave gives texture, is strong/ stable , gives weight, is flexible, allows for fraying, two tone look.

**Marks awarded as follows:**

Simple statement, e.g. 'Twill is strong' 1 mark

More detailed statement e.g. 'twill weave is strong so won't wear out quickly'  
2 reasons, 2 marks each **4 marks**

- (c) (i) Candidate should select an appropriate symbol from each of the 3 groups shown. Each one should relate to the product designed in question 2. If hand wash- must refer to design  
3 appropriate choices, 1 mark each **3 marks**

(ii) The wash symbol selected should be explained. e.g. wash (1m) at 40 degrees/ temperature (1m), minimum agitation (1m), short spin (1m)  
Any 2 points, 1 mark each **2 marks**

- (d) e.g. can be uniformly dyed with a different colour (e.g.), can have animals printed on, can be tie-dyed using two different colours, can be bleached to remove some of the blue and leave white streaks, can be woven in different coloured stripes, embroidery, appliqué, beading, top stitching.

**Marks awarded as follows:**

Each method should be given 1 mark and a second mark for explanation.  
3 methods, 2 marks each **6 marks**



- (e) e.g. iron-on /lightweight interfacing, open-ended /blue /metal zip, polyester /embroidery /green thread, silver /dragon shaped /2cm sized buttons. Description of fastening.  
**Not** where used or purpose  
Name of component, 1 mark plus detail, 1 mark  
2 components, 2 marks each **4 marks**
- (f) **Overlocked seam**
- (i) **Advantages:** easy to mass manufacture,  
not seen on right side, not bulky  
quick and easy, strong  
**Not** stops fraying **2 marks**
- (ii) **Disadvantages:** uses a lot of thread, no interest  
given to product not always  
strong. Can cut off too much fabric, takes time  
to unpick if wrong. Not always comfortable. **2 marks**
- Double stitched seam**
- (iii) **Advantages:** adds interest to product, lies flat, strong **2 marks**
- (iv) **Disadvantages:** takes time to manufacture, may  
not want visible stitching,  
inaccurate stitching is obvious. Bulkiness. **2 marks**
- Marks awarded as follows:**  
Each advantage or disadvantage should be given 1 mark and a second  
mark for detail or expansion related to own product or 2 points one mark  
each. **8 marks**  
**Total 33 marks**

Question 4

- (a) 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) Candidates should give 2 different advantages of using computerised machines for each of the three activities.
1. e.g. pattern laying and cutting is more economical, quicker/ saves time, is more accurate. Less accidents, reduce labour costs. **NOT easy.**
  2. e.g. buttonholes are accurately sized, evenly spaced on product. Saves time/ quicker.
  3. e.g. time controlled for fabric, less risk of burning operatives/ product. Accuracy of pressing e.g. creasing in trousers, saves time, professional finish, reduce labour costs.

Any 2 advantages, 1 mark each

**6 marks**

- (c) (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. Quality checks on machinery/ equipment. Staff training.

**Marks awarded as follows:**

Simple statements e.g. ‘make sure it’s 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 to allow for growth of child, simple design won’t date. Well made. Functional/ useful. Worn all year round, always in fashion, used for different occasions. Could be educational. **Not** low price.

**Marks awarded as follows:**

3 reasons, 1 mark each

3 marks

Explanation /expansion of each point 1 mark each

3 marks

**6 marks****Total 21 marks**

Question 5

- (a) (i) **designer shop advantages:** e.g. products are exclusive, high quality products, sales advisors have specialist knowledge of products
- disadvantages:** e.g. higher prices, limited number of outlets
- (ii) **high street chain store advantages:** e.g. makes products available to more consumers, reasonably priced whilst still delivering quality, large number of outlets returns with no problems, well known/popular.
- disadvantages:** e.g. products lack exclusivity, may be expensive for quality products.
- (iii) **mail order catalogue advantages:** makes products available to wide consumer market, some exclusivity, easier than visiting shops for some groups of consumers.
- disadvantages:** e.g. can't 'see before you buy', problems if returns necessary, often need a credit card. Lost in post, pay for postage and packing.
- (iv) **market stall: advantages:** e.g. cheaper, fun to negotiate 'a bargain'.
- disadvantages:** e.g. products may be 'seconds', may not be able to return faulty goods no credit cards. Weather conditions, not able to try on.

1 advantage and 1 disadvantage of each method, 1 mark each

**8 marks**

- (b) e.g. accuracy of costs, easy to change costs of individual items, deals with all costs, i.e. materials cost of production, etc, printed off easily if needed, ability to save/ not lost. Information clearly presented, automatically adds up, quicker.

Any 4 points; an explanation may count as a point, 1 mark each

**4 marks**

**Total 12 marks**

**Total Marks on Paper 125**