

GCSE 2004

June Series



Mark Scheme

Design and Technology: Textiles Technology (3557 – Short Course Foundation)

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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Dr Michael Cresswell Director General

GENERAL CERTIFICATE OF SECONDARY EDUCATION

Summer Examination 2004

DESIGN AND TECHNOLOGY: TEXTILES TECHNOLOGY**Short Course – Foundation 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) 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:** e.g. tassels not fashionable, shape traditional, lack of decoration.

Marks awarded as follows:

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

2 marks for more detailed statement, e.g. decoration 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) 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 **4 marks**

- (b) (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
8 marks

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

Marks awarded as follows:

Simple statements, e.g. 'Children will like the design'. 1 mark

More detailed statements with example e.g. 'the product can be used for many different occasions', or 2 reasons 2 marks
2 marks

| | | | |
|---|-------------------|---|-----------------------------|
| (c) Final design for product to include: | Materials | Poor use of fabric/ inappropriate components, do not reflect theme | 1 mark |
| | | Sound use of denim and choice of other materials but will not be used to advantage or clearly labelled. May include many components but will not always be most appropriate use/ choice | 2 marks |
| | | Good use of denim and choice of components may not be a wide choice but used effectively | 3 marks 3 marks |
| | Decoration | e.g. printing, dyeing, embroidery, appliqué, beading, adding lace/ braid/ trims, fabric manipulation e.g. tucks, fraying, patchwork, decorative pockets, studs, buttons, top stitching. | |
| | | 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 theme, poor use of space on product | 1-2 marks |
| Level 1/2 | Unimaginative design with little thought given to intended end use, 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. 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 |
| Level 2/3 | 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 10 marks |

Quality of Presentation

| | | |
|----------------|---|---------------------------|
| 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 which is clear and the candidate has clearly communicated what is intended | 3 marks 3 marks |

- (d) (i) e.g. embroidery, tie-dye, batik, printing, use of beads, piping
1 appropriate decorative technique as in 2(c) **1 mark**
- (ii) Clear details of how the technique works 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. 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
- (e) Candidates 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.
2 reasons, 1 mark each **2 marks**
- Total 44 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' 2 marks
3 reasons, 2 marks each **6 marks**

- (b) (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**

- (c) e.g. can be uniformly dyed with a different colour (e.g. green), 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.

The method should be given 1 mark and a second mark for explanation **2 marks**

Total 13 marks

Question 4

- (a) (i) **Advantages:** easy to mass manufacture, not seen on right side, not bulky, quick and easy, strong. **Not** stops fraying.
- (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.

Marks awarded as follows:

The advantage and disadvantage should be given 1 mark and a second mark for detail or expansion related to own product.

- 1 advantage and 1 disadvantage, 2 marks each **4 marks**
- (b) (i) The stitching is crooked **1 mark**
 e.g. Make sure stitching follows the fold /use a guide to help. **1 mark**
- (ii) The edge is fraying **1 mark**
 e.g. Make sure fold is turned under properly before stitching. **1 mark**
- 2 faults, 2 marks each **4 marks**
- (c) Candidates should give 2 different advantages of using computerised machines,
 e.g. pattern laying and cutting is more economical, quicker/ saves time, is more accurate. Less accidents, reduce labour costs. **Not** easy.
 e.g. buttonholes are accurately sized, evenly spaced on product. Saves time/ quicker
 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 for each, 1 mark each **6 marks**

Total 14 marks

Question 5

- (a) (i) **Advantages:** e.g. It saves storage space, which is costly.
Disadvantages: e.g. Late deliveries can cause production problems
1 advantage and 1 disadvantage 1 mark each **2 marks**
- (ii) **Advantages:** e.g. It saves buying specialised machinery, training staff.
Disadvantages: e.g. May not be quality required, may be delivered late.
1 advantage and 1 disadvantage 1 mark each **2 marks**
- (b) (i) e.g. Time will be wasted waiting for repairs, improves efficiency of machines if kept in good order, production slows if machines break down.
2 points, 1 mark each **2 marks**
- (ii) e.g. Time wasted rethreading machines, poor quality goods, thread breaks easily.
2 points, 1 mark each **2 marks**
- (c) (i) e.g. staff wages, premises /energy costs, delivery /storage
2 costs, 1 mark each **2 marks**
- (ii) e.g. accuracy of costs, easy to change costs of individual items, deals with all costs, i.e. materials cost of production, etc.
Any 1 point, plus an expansion of point, 1 mark each **2 marks**
- Total 12 marks**

Question 6**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.

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.

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.

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

6 marks

Total 6 marks

Total marks on Paper 100