



2012 Fashion and Textile Technology

Intermediate 2 Technological Project

Finalised Marking Instructions

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STEP 1 Total mark allocation – 14 marks

1 : 1 Identification of the key points with explanation

The candidate should identify the 'core' key points – these are all the main key words of the Technological Project brief.

The number of 'core' key points which can be identified will depend on the wording of the Technological Project brief.

Candidates should number each key point identified.

Identify the key points – 2 marks

Candidates who record all the 'core' key points.	2 marks
Candidates who record ½ or more, but not all the 'core' key points.	1 mark
Candidates who record less than ½ the 'core' key points.	0 marks

Basic and accurate explanation of key points – 2 marks

Marks are determined by the number of key points which have a basic and accurate explanation.

If all key points have a basic and accurate explanation.	2 marks
If ½ or more but not all of the key points have a basic and accurate explanation.	1 mark
If less than ½ the key points have a basic and accurate explanation.	0 marks

Detailed and accurate explanation – 1 mark

Candidates who provide further accurate detail within the explanations will be awarded an additional mark. Extra detail means one additional point of explanation is provided for any one of the key points.

Brief 1

Develop a textile item incorporating recycled materials.

Brief 2

Develop a textile item for a party range for teenagers.

Brief 1

Key points

1. develop
2. (a) textile
3. item
4. incorporating
5. recycled
6. materials

Brief 2

Key points

1. develop
2. (a) textile
3. item
4. (for a) party
5. range
6. (for) teenagers

Example of basic accurate explanation of key points

Develop • create or devise ideas for a new item

Example of further accurate detail in explanation of key points

Develop • create or devise ideas for a new item
• make an item which is original or different to what is available at present

1 : 2 Draw up appropriate criteria for a specification

Allows for range of solutions

1 mark

Specification allows for a range of possible solutions which are relevant to the brief	1 mark
If a range of solutions is not possible	0 marks

Contains more detail than the brief

1 mark

Specification points must be derived from the brief. When drawing up the criteria for the specification candidates should not just rewrite the key points – greater explanation is required.

Where specification points do not consistently contain more detail than the brief, candidates will be awarded marks accordingly.

Be written in measurable terms

2 marks

Candidates must indicate how each specification point should be able to be measured by a valid method.

All specification points are measurable.	2 marks
½ or more, but not all specification points are measurable.	1 mark
Less than ½ the specification points are measurable.	0 marks

Note: Candidates are expected to produce a **minimum of four** specification points.

Total – 4 marks

Step 1.2 SPECIFICATION

Brief 1 – Recycled materials			
	Specification point	Measured by:	Identified expert

Brief specific

1	<ul style="list-style-type: none"> be different to other products/be original 	<ul style="list-style-type: none"> Interview Survey of retail outlets/ Internet search 	<ul style="list-style-type: none"> Textile technologist/designer/retailer
2	<ul style="list-style-type: none"> be an item made of fabric 	<ul style="list-style-type: none"> Interview Resources/components checklist 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/Trading Standards Officer
3	<ul style="list-style-type: none"> be a single item 	<ul style="list-style-type: none"> Interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer
4	<ul style="list-style-type: none"> include recycled materials/components 	<ul style="list-style-type: none"> Interview User/wearer trial of prototype 	<ul style="list-style-type: none"> Textile technologist/designer/retailer
5	<ul style="list-style-type: none"> be made using suitable fabrics 	<ul style="list-style-type: none"> Interview User/wearer trial of prototype 	<ul style="list-style-type: none"> Textile technologist/designer/retailer
6	<ul style="list-style-type: none"> take account of current fashion trends/be fashionable 	<ul style="list-style-type: none"> Interview/survey/questionnaire/sensory testing 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/target group

Target group

7	<ul style="list-style-type: none"> be suitable for target group 	<ul style="list-style-type: none"> Interview/survey/questionnaire/sensory testing 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/target group
8	<ul style="list-style-type: none"> take account of the likes/dislikes of target group 	<ul style="list-style-type: none"> Interview/questionnaire/survey/sensory evaluation 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/target group
9	<ul style="list-style-type: none"> be aesthetically pleasing to target group 	<ul style="list-style-type: none"> Interview/questionnaire/survey/sensory evaluation 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/target group

Cost/quality

10	<ul style="list-style-type: none"> be comparable in cost to similar items 	<ul style="list-style-type: none"> Costing exercise & price check/comparison Costing exercise & interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/target group
11	<ul style="list-style-type: none"> be cost effective/good value for money 	<ul style="list-style-type: none"> Costing exercise & interview/survey 	<ul style="list-style-type: none"> Textile technologist/designer/target group/retailer
12	<ul style="list-style-type: none"> be within the budget of the target group 	<ul style="list-style-type: none"> Costing exercise & interview/survey 	<ul style="list-style-type: none"> Textile technologist/designer/target group/retailer
13	<ul style="list-style-type: none"> be of an acceptable/satisfactory standard 	<ul style="list-style-type: none"> Interview/sensory testing Quality checklist & interview 	<ul style="list-style-type: none"> Textile technologist/designer/target group/retailer

Manufacture

14	<ul style="list-style-type: none"> be made using the facilities/resources available to the candidate 	<ul style="list-style-type: none"> Interview 	<ul style="list-style-type: none"> Textile technologist
15	<ul style="list-style-type: none"> be made in the time available to the candidate 	<ul style="list-style-type: none"> Timed trial of prototype & interview 	<ul style="list-style-type: none"> Textile technologist
16	<ul style="list-style-type: none"> be within the capabilities of the candidate 	<ul style="list-style-type: none"> Trial of prototype & interview Skills analysis & interview Interview 	<ul style="list-style-type: none"> Textile technologist
17	<ul style="list-style-type: none"> be made using the facilities/resources available to the designer/retailer 	<ul style="list-style-type: none"> Interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer
18	<ul style="list-style-type: none"> be made in the time available to the designer/retailer 	<ul style="list-style-type: none"> Timed trial of prototype & interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer
19	<ul style="list-style-type: none"> be within the capabilities of the designer/retailer 	<ul style="list-style-type: none"> Trial of prototype & interview Skills analysis & interview Interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer
20	<ul style="list-style-type: none"> be prepared under safe/hygienic conditions 	<ul style="list-style-type: none"> Interview Quality checklist & interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer

Production

21	<ul style="list-style-type: none"> be able to be laundered/easy to care for 	<ul style="list-style-type: none"> Interview User/wearer trial 	<ul style="list-style-type: none"> Textile technologist/designer/retailer
22	<ul style="list-style-type: none"> be safe in use/wear 	<ul style="list-style-type: none"> Interview User/wearer trial 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/Trading Standards Officer
23	<ul style="list-style-type: none"> be durable 	<ul style="list-style-type: none"> Interview User/wearer trial 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/Trading Standards Officer
24	<ul style="list-style-type: none"> be suitable for mass production 	<ul style="list-style-type: none"> Interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/Trading Standards Officer

Note:

- The candidate **must** specify the term 'expert' if used.
- A textile technologist could include a person working in textile product development or a Home Economics teacher

- NB**
- Specification Points** – It must be checked that the specification points are different.
– A candidate may use different wording to state the same point.
 - Measured by** – The candidate must specify the term 'expert' if used.
– Method of measuring must be able to check/assess whether the specification point has been met.

Step 1.2 SPECIFICATION

Brief 2 – Party range for teenagers			
	Specification point	Measured by:	Identified expert

Brief specific

1	<ul style="list-style-type: none"> be different to other products/be original 	<ul style="list-style-type: none"> Interview Survey of retail outlets/ Internet search 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/target group
2	<ul style="list-style-type: none"> be an item made of fabric 	<ul style="list-style-type: none"> Interview Resources/components checklist 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/Trading Standards Officer
3	<ul style="list-style-type: none"> be a single item 	<ul style="list-style-type: none"> Interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer
4	<ul style="list-style-type: none"> be made using suitable fabrics 	<ul style="list-style-type: none"> Interview User/wearer trial of prototype 	<ul style="list-style-type: none"> Textile technologist/designer/retailer
5	<ul style="list-style-type: none"> be suitable for teenagers 	<ul style="list-style-type: none"> Interview/survey/questionnaire/sensory testing 	<ul style="list-style-type: none"> Textile technologist/appropriate teacher/designer/retailer
6	<ul style="list-style-type: none"> be suitable for a social function/party 	<ul style="list-style-type: none"> Interview/sensory testing 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/parent/target group
7	<ul style="list-style-type: none"> be suitable for inclusion in a party range 	<ul style="list-style-type: none"> Interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer
8	<ul style="list-style-type: none"> take account of current fashion trends/be fashionable 	<ul style="list-style-type: none"> Interview/survey/questionnaire/sensory testing 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/target group

Target Group

9	<ul style="list-style-type: none"> take account of the likes/dislikes of target group 	<ul style="list-style-type: none"> Interview/questionnaire/survey/sensory evaluation 	<ul style="list-style-type: none"> Textile technologist/appropriate teacher/designer/retailer/target group
10	<ul style="list-style-type: none"> be aesthetically pleasing to target group 	<ul style="list-style-type: none"> Interview/questionnaire/survey/sensory evaluation 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/target group

Cost/quality

11	<ul style="list-style-type: none"> be comparable in cost to similar items 	<ul style="list-style-type: none"> Costing exercise & price check/comparison Costing exercise & interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/target group
12	<ul style="list-style-type: none"> be cost effective/good value for money 	<ul style="list-style-type: none"> Costing exercise & interview/survey 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/target group
13	<ul style="list-style-type: none"> be within the budget of the target group/parent 	<ul style="list-style-type: none"> Costing exercise & interview/survey 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/target group/parent
14	<ul style="list-style-type: none"> be cost effective to produce 	<ul style="list-style-type: none"> Costing exercise & interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer
15	<ul style="list-style-type: none"> be of an acceptable/satisfactory standard 	<ul style="list-style-type: none"> Interview/sensory testing Quality checklist & interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/target group/parent

Manufacture

16	<ul style="list-style-type: none"> be made using the facilities/resources available to the candidate 	<ul style="list-style-type: none"> Interview 	<ul style="list-style-type: none"> Textile technologist
17	<ul style="list-style-type: none"> be made in the time available to the candidate 	<ul style="list-style-type: none"> Timed trial of prototype & interview 	<ul style="list-style-type: none"> Textile technologist
18	<ul style="list-style-type: none"> be within the capabilities of the candidate 	<ul style="list-style-type: none"> Trial of prototype & interview Skills analysis & interview Interview 	<ul style="list-style-type: none"> Textile technologist
19	<ul style="list-style-type: none"> be made using the facilities/resources available to the designer/retailer 	<ul style="list-style-type: none"> Interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer
20	<ul style="list-style-type: none"> be made in the time available to the designer/retailer 	<ul style="list-style-type: none"> Timed trial of prototype & interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer
21	<ul style="list-style-type: none"> be within the capabilities of the designer/retailer 	<ul style="list-style-type: none"> Trial of prototype & interview Skills analysis & interview Interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer
22	<ul style="list-style-type: none"> be prepared under safe/hygienic conditions 	<ul style="list-style-type: none"> Interview Quality checklist & interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer

Production

23	<ul style="list-style-type: none"> be able to be laundered/easy to care for 	<ul style="list-style-type: none"> Interview User/wearer trial 	<ul style="list-style-type: none"> Textile technologist/designer/retailer
24	<ul style="list-style-type: none"> be safe in use/wear 	<ul style="list-style-type: none"> Interview User/wearer trial 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/Trading Standards Officer
25	<ul style="list-style-type: none"> be durable 	<ul style="list-style-type: none"> Interview User/wearer trial 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/Trading Standards Officer
26	<ul style="list-style-type: none"> be suitable for mass production 	<ul style="list-style-type: none"> Interview 	<ul style="list-style-type: none"> Textile technologist/designer/retailer/Trading Standards Officer

Note:

- The candidate **must** specify the term 'expert' if used.
- A textile technologist could include a person working in textile product development or a Home Economics teacher

- NB**
- Specification Points** – It must be checked that the specification points are different.
– A candidate may use different wording to state the same point.
 - Measured by** – The candidate must specify the term 'expert' if used.
– Method of measuring must be able to check/assess whether the specification point has been met.

1 : 3 Devise an overall plan for investigations

List a range of relevant investigations – 2 marks

Candidates who provide a list of possible investigations which focus clearly on: <ul style="list-style-type: none">• the key points of the project brief• the specification points• and have a clear aim/purpose	2 marks
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Candidates who provide a list of investigations <ul style="list-style-type: none">• which do not focus clearly on the key points and the specification will be awarded	1 mark
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Obvious omissions from the list of investigations will result in marks not being awarded.

Identify techniques to be used – 2 marks

All techniques are correctly identified	2 marks
½ or more, but not all techniques are correctly identified	1 mark
Less than ½ of the techniques are correctly identified	0 marks

Techniques must be appropriate for the investigations and so allow the candidate the possibility of collecting relevant data/information.

Total – 4 marks

From the proposed list of investigations drawn up in 1 : 3 above, candidates should form a prioritised list of those investigations which they propose to undertake.

No marks are awarded at this stage but candidates are expected to focus on those investigations most relevant to the needs of the project brief. A number of investigations may be combined by using one technique. **No more than 3** depending on their nature, could be realistically carried out in the time available.

Candidates who intend to use a questionnaire as an investigation must issue 20 in order to gain valid results.

Candidates should complete this work on page 6 of the pro forma.

Step 1.3 INVESTIGATIONS

Required investigations

- recycling

Brief 1 – Recycled materials			
	Investigation	Technique	Identified expert

Brief specific

1	Potential range of recycled materials/components	<ul style="list-style-type: none"> • Interview • Literary/Internet search 	<ul style="list-style-type: none"> • Textile technologist/retailer
2	Range of recycled materials/components available	<ul style="list-style-type: none"> • Interview • Literary/Internet search • Survey of retail outlets/recyclable sources 	<ul style="list-style-type: none"> • Textile technologist/retailer
3	Ways of incorporating recycled materials/components into textile items	<ul style="list-style-type: none"> • Interview • Literary/Internet search 	<ul style="list-style-type: none"> • Textile technologist/retailer
4	Possible inspiration from current fashion trends	<ul style="list-style-type: none"> • Interview • Literary/Internet search 	<ul style="list-style-type: none"> • Textile technologist/retailer
5	Possible target market	<ul style="list-style-type: none"> • Interview • Literary/Internet search 	<ul style="list-style-type: none"> • Textile technologist/designer/retailer
6	Range of suitable fabrics/trimmings/fastenings available	<ul style="list-style-type: none"> • Survey of retail outlets/Internet search • Interview 	<ul style="list-style-type: none"> • Textile technologist
7	Choice of fabrics/trimmings/fastenings for potential solutions	<ul style="list-style-type: none"> • Interview/survey/questionnaire/sensory evaluation • Manufacture prototype & check 	<ul style="list-style-type: none"> • Textile technologist/designer/retailer/target group
8	Suitability for target group/end use	<ul style="list-style-type: none"> • Interview/survey/questionnaire/sensory evaluation 	<ul style="list-style-type: none"> • Textile technologist/designer/retailer/target group
9	Ideas for potential solutions	<ul style="list-style-type: none"> • Interview • Survey of retail outlets/Internet search • Literary/Internet search • Manufacture prototype & check 	<ul style="list-style-type: none"> • Textile technologist/retailer • Textile technologist/designer/retailer/target group

Target Group

10	Likes and dislikes of target group	<ul style="list-style-type: none"> • Interview/questionnaire/survey/sensory evaluation 	<ul style="list-style-type: none"> • Textile technologist/designer/retailer/target group
11	Aesthetic appeal to target group	<ul style="list-style-type: none"> • Interview/questionnaire/survey/sensory evaluation 	<ul style="list-style-type: none"> • Textile technologist/designer/retailer/target group

Cost/quality

12	Cost of potential textiles/ components/solutions	<ul style="list-style-type: none"> • Costing exercise 	
13	Price range of similar items	<ul style="list-style-type: none"> • Interview • Survey of current product range 	<ul style="list-style-type: none"> • Textile technologist/ designer/retailer/target group
14	Budget of the target group/ amount target group is prepared to pay	<ul style="list-style-type: none"> • Interview/questionnaire • Costing exercise & interview/survey/questionnaire 	<ul style="list-style-type: none"> • Textile technologist/ designer/retailer/target group
15	Quality requirements of potential solutions	<ul style="list-style-type: none"> • Interview/survey/sensory testing/questionnaire 	<ul style="list-style-type: none"> • Textile technologist/ designer/retailer/target group

Manufacture

16	Facilities/resources available to the candidate	<ul style="list-style-type: none"> • Interview 	<ul style="list-style-type: none"> • Textile technologist
17	Time available to the candidate	<ul style="list-style-type: none"> • Timed trial of prototype & interview 	<ul style="list-style-type: none"> • Textile technologist
18	Capabilities of the candidate	<ul style="list-style-type: none"> • Trial of prototype • Skills analysis • Interview 	<ul style="list-style-type: none"> • Textile technologist
19	Facilities/resources available to the designer/retailer	<ul style="list-style-type: none"> • Interview 	<ul style="list-style-type: none"> • Textile technologist/ designer/retailer
20	Time available to the designer/ retailer	<ul style="list-style-type: none"> • Timed trial of prototype & interview 	<ul style="list-style-type: none"> • Textile technologist/ designer/retailer
21	Capabilities of the design/retail staff	<ul style="list-style-type: none"> • Trial of prototype • Skills analysis • Interview 	<ul style="list-style-type: none"> • Textile technologist/ designer/retailer
22	Hygiene/safety requirements for production	<ul style="list-style-type: none"> • Interview 	<ul style="list-style-type: none"> • Textile technologist/ designer/retailer

Production

23	Safety in use/wear	<ul style="list-style-type: none"> • Interview 	<ul style="list-style-type: none"> • Textile technologist/ designer/retailer/ Trading Standards Officer
24	Care requirements of materials/resources	<ul style="list-style-type: none"> • Literary/Internet search • Trial of prototype • Interview 	<ul style="list-style-type: none"> • Textile technologist/ designer/retailer/ Trading Standards Officer
25	Durability of potential solutions	<ul style="list-style-type: none"> • Trial of prototype • Interview 	<ul style="list-style-type: none"> • Textile technologist/ designer/retailer/ Trading Standards Officer

26	Suitability for mass production	• Interview	• Textile technologist/ designer/retailer
27	Influencing factors on the final solution	• Interview	• Textile technologist/ designer/retailer/target group

Note:

- The candidate **must** specify the term 'expert' if used.
- A textile technologist could include a person working in textile product development or a Home Economics teacher

Step 1.3 INVESTIGATIONS

Required investigations

- party
- teenagers

Brief 2 – party range for teenagers			
	Investigation	Technique	Identified expert

Brief specific

1	Potential range of party items	<ul style="list-style-type: none"> • Interview • Literary/Internet search • Survey of retail outlets 	<ul style="list-style-type: none"> • Textile technologist/retailer
2	Types of celebrations	<ul style="list-style-type: none"> • Interview • Literary/Internet search 	<ul style="list-style-type: none"> • Textile technologist/retailer/target group
3	Current range of textile party items available	<ul style="list-style-type: none"> • Interview • Retail survey/Internet search 	<ul style="list-style-type: none"> • Textile technologist/retailer
4	Ideas for potential solutions	<ul style="list-style-type: none"> • Interview • Survey of retail outlets/Internet search • Literary/Internet search • Manufacture prototype & check 	<ul style="list-style-type: none"> • Textile technologist/retailer/teacher/target group
5	Current range of fashionable items for parties/teenagers	<ul style="list-style-type: none"> • Survey of retail outlets • Literary/Internet search • Interview 	<ul style="list-style-type: none"> • Textile technologist/retailer/target group
6	Range of suitable fabrics/trimmings/fastenings available	<ul style="list-style-type: none"> • Survey of retail outlets/Internet search • Interview 	<ul style="list-style-type: none"> • Textile technologist
7	Choice of suitable fabrics/trimmings/fastenings for potential solutions	<ul style="list-style-type: none"> • Interview/survey/questionnaire/sensory evaluation • Manufacture prototype & check 	<ul style="list-style-type: none"> • Textile technologist/retailer/target group
8	Suitable potential solutions for a party	<ul style="list-style-type: none"> • Interview 	<ul style="list-style-type: none"> • Textile technologist/retailer
9	Suitable potential solutions for teenagers	<ul style="list-style-type: none"> • Interview 	<ul style="list-style-type: none"> • Textile technologist/retailer

Target group

10	Likes and dislikes of teenagers	<ul style="list-style-type: none"> • Interview/questionnaire/survey/sensory evaluation 	<ul style="list-style-type: none"> • Textile technologist/retailer/target group
11	Aesthetic appeal to teenagers	<ul style="list-style-type: none"> • Interview/questionnaire/survey/sensory evaluation 	<ul style="list-style-type: none"> • Textile technologist/retailer/target group

Cost/quality

12	Cost of potential textiles/ components/solutions	<ul style="list-style-type: none"> • Costing exercise 	
13	Price range of similar items	<ul style="list-style-type: none"> • Interview • Survey of current product range 	<ul style="list-style-type: none"> • Textile technologist/retailer/parent/target group
14	Budget of the target group/amount target group is prepared to pay	<ul style="list-style-type: none"> • Interview/questionnaire • Costing exercise & interview/survey/questionnaire 	<ul style="list-style-type: none"> • Textile technologist/retailer/parent/target group
15	Quality requirements of potential solutions	<ul style="list-style-type: none"> • Interview/survey/sensory testing/questionnaire 	<ul style="list-style-type: none"> • Textile technologist/retailer/parent/target group

Manufacture

16	Facilities/resources available to the candidate	<ul style="list-style-type: none"> • Interview 	<ul style="list-style-type: none"> • Textile technologist
17	Time available to the candidate	<ul style="list-style-type: none"> • Timed trial of prototype & interview 	<ul style="list-style-type: none"> • Textile technologist
18	Capabilities of the candidate	<ul style="list-style-type: none"> • Trial of prototype • Skills analysis • Interview 	<ul style="list-style-type: none"> • Textile technologist
19	Facilities/resources available to the designer/retailer	<ul style="list-style-type: none"> • Interview 	<ul style="list-style-type: none"> • Textile technologist/designer/retailer
20	Time available to the designer/retailer	<ul style="list-style-type: none"> • Timed trial of prototype & interview 	<ul style="list-style-type: none"> • Textile technologist/designer/retailer
21	Capabilities of the design/retail staff	<ul style="list-style-type: none"> • Trial of prototype • Skills analysis • Interview 	<ul style="list-style-type: none"> • Textile technologist/designer/retailer
22	Hygiene/safety requirements for production	<ul style="list-style-type: none"> • Interview 	<ul style="list-style-type: none"> • Textile technologist/designer/retailer

Production

23	Safety in use/wear	<ul style="list-style-type: none"> • Interview 	<ul style="list-style-type: none"> • Textile technologist/designer/retailer/Trading Standards Officer/parent
24	Care requirements of materials/resources	<ul style="list-style-type: none"> • Literary/Internet search • Trial of prototype • Interview 	<ul style="list-style-type: none"> • Textile technologist/designer/retailer/Trading Standards Officer

25	Durability of potential solutions	<ul style="list-style-type: none"> • Trial of prototype • Interview 	<ul style="list-style-type: none"> • Textile technologist/ designer/retailer/ Trading Standards Officer
26	Suitability for mass production	<ul style="list-style-type: none"> • Interview 	<ul style="list-style-type: none"> • Textile technologist/ designer/retailer
27	Influencing factors on the final solution	<ul style="list-style-type: none"> • Interview 	<ul style="list-style-type: none"> • Textile technologist/ designer/retailer/target group/parent

Note:

- The candidate **must** specify the term 'expert' if used.
- A textile technologist could include a person working in textile product development or a Home Economics teacher

STEP 2 Total mark allocation – 15 marks

2 : 1 Implement the overall plan for investigations – 12 marks

The mark allocation for this area will be awarded holistically and will be based on candidates' performance in a series of investigations.

Candidates will be assessed on the results and conclusions from each investigation – see the marking criteria breakdown listed below.

Teachers/lecturers must ensure candidates present the results and conclusions of each investigation on pages 7, 8 and 9 only.

Candidates using computer software to produce results, eg bar charts or graphs, must ensure that these are presented only on the pages allocated for this work ie pages 7, 8 and 9.

Candidates who present the results and conclusions of each investigation on more than one A4 sheet of paper will be penalised.

Candidates' findings should

- be brief, concise and easy to interpret
- show a link to the aim and purpose of the investigation

Results must be derived from the investigations and be based on facts and evidence.

Conclusions must be based on **results obtained**.

Marking Criteria

- Holistic approach – marks must be briefly justified
- Results must be brief, concise and easy to interpret
- Results must show a link to the aim/purpose of the investigation
- Results must be derived from the investigations and based on facts and evidence
- Conclusions must be based on the results obtained

For **each** of **three** investigations:

The candidate has done as they intended	1 mark
The investigation contains brief, concise and easy to interpret results	1 mark
Results are based on fact and relevant to brief	1 mark
Conclusion is based on results/shows progression	1 mark

Total – 12 Marks

2 : 2 Derive a solution from the investigations – 3 marks

Generate one solution – 2 marks

Candidates derive **one solution** which must be

• relevant to the needs of the project brief	1 mark
• based on the results and conclusions reached in the investigations	1 mark

Brief description of the solution – 1 mark

The solution should be described so it is able to be **visualised**.

Various methods may be used – written details, sketches, diagrams, labelled diagrams, storyboards – to ensure clarity.

Total – 3 marks

Brief 1: Recycled materials
Possible solutions

Any textile item which incorporates recycled materials.

Brief 2: Party range for teenager
Possible solutions

Any textile item suitable for a party range for teenagers.

STEP 3 Total mark allocation**16 marks****3 : 1 Manufacture the chosen solution**

Candidates must complete the plan **before** starting to manufacture the solution.

Candidates will be penalised if the plan is written **retrospectively**.

Identify and requisition resources**3 marks**

Candidates who identify and requisition all the main resources	3 marks
Candidates who requisition most of the main resources	2 marks
Candidates who only requisition some of the main resources	1 mark

Resources will depend on the chosen solution and may relate to textiles, equipment.

Identify and requisition equipment**3 marks**

Candidates who identify and requisition all the main equipment	3 marks
Candidates who identify and requisition most of the main equipment	2 marks
Candidates who identify and requisition some of the main equipment	1 mark

Equipment will depend on the chosen solution and may relate to equipment used in food or fabric activities.

Draw up a sequence of work**3 marks**

Candidates should show logical thinking when drawing up the sequence of work to manufacture the solution, eg

- activities should be in the correct order to complete the solution
- longer activities started nearer the beginning of the sequence
- dovetailing of activities as appropriate.

Sequence of work is highly effective – all activities planned in correct order	3 marks
Sequence of work is effective – most activities planned in the correct order	2 marks
Sequence of work is satisfactory – some activities planned in the correct order, sufficient to allow the solution to be manufactured	1 mark

Deployment of time (time plan)**3 marks**

Candidates should make good use of time.

- Activities should be appropriately timed.
- Resources and equipment are used to make more effective use of time.

Highly effective time plan	3 marks
Effective time plan	2 marks
Satisfactory time plan	1 mark

Total – 12 marks

After completing the plan for manufacture, candidates should start to manufacture the solution.

Candidates should be encouraged to make notes on page 14 as they are carrying out the manufacturing process. Notes may be made on how manufacture is proceeding, any problems encountered and any changes/modifications made to the plan.

This work is not marked but may prove useful to candidates when completing Step 4 : 1 – Evaluation of the overall plan.

Photographic evidence

Photographic evidence of the candidates' work must be attached to the proforma. If this evidence is not attached, marking must stop, and a note of explanation added to the marking sheet. This project must then be marked for the attention of the PA.

Although no marks are awarded for this area, **evidence must be provided** of the candidates' solution.

When a centre has no photographic evidence attached, but has a note of explanation, continue marking the project but again refer this project to the PA.

Two photographs are required:

- one should provide evidence of the solution **during manufacture**.
- the other should provide evidence of the **completed** solution.

Although the quality of the photographs is not important, they **must** give an indication of the type of work being carried out and completed by the candidate.

3 : 2 Devise a test for the manufactured solution

Present one test with appropriate technique

Candidates should present **one** appropriate test with **one** appropriate technique.

Candidates who do not identify an appropriate test cannot be awarded any marks.

Technique must be appropriate to the test, allowing candidates to collect relevant data/information.

Total – 1 mark

Briefs 1 & 2

Test	Technique
1. Examination by a specified expert eg textile technologist/retailer/target group	<ul style="list-style-type: none">• Interview/questionnaire with specified expert• Sensory testing with specified expert
2. Examination by target group	<ul style="list-style-type: none">• Interview/questionnaire with target group• Sensory testing with target group• Observational checklist• Wearer/user trial with target group
3. Costing exercise	<ul style="list-style-type: none">• Costing exercise confirmed by interview with specified expert, eg textile technologist/retailer

When the candidate uses the term 'expert', it must be qualified eg a textile technologist.

This could be included in either the test or the technique.

3 : 3 Implement the test for the manufactured solution

<p>Brief, concise and easy to interpret results</p> <p>Results should be derived from the test and be based on facts and evidence.</p> <p>Test results should be presented in a format which is</p> <ul style="list-style-type: none">• brief• concise• easy to interpret.	<p>1 mark</p>
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<p>Factual and relevant results</p> <p>Results should be</p> <ul style="list-style-type: none">• derived from the investigation• based on facts and evidence.	<p>1 mark</p>
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<p>Brief conclusion based on results</p> <p>Candidates will be marked on their ability to draw meaningful and accurate conclusions from the results of the test.</p> <p>Conclusions must be</p> <ul style="list-style-type: none">• factually correct• based on the evidence provided by the results.	<p>1 mark</p>
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Candidates must not offer personal opinions.

Total – 3 marks

STEP 4 Total mark allocation – 6 marks

4 : 1 Evaluate the chosen solution

Evaluation against the specification points – 3 marks

Candidates must rewrite the specification points briefly in the appropriate column.

Candidates must evaluate the solution against **each** specification point. The results of the testing can be used here.

Candidates will be penalised for lack of accuracy and detail within the explanation.

Page 17 of the pro forma should be used for the evaluation against the specification.

• All specification points are evaluated	3 marks
• ½ or more, but not all specification points are evaluated	2 marks
• Less than ½ the specification points are evaluated	1 mark
• No evaluation is provided	0 marks

Evaluation of the overall plan – 3 marks

Candidate will evaluate the overall plan (Steps 1 – 3 of the Technological Project).

The following criteria should be used in the evaluation.

- time
- resources
- skills and abilities.

No marks will be awarded to candidates who do not use these criteria in their review.

The evaluation, which may include adaptations/modifications, **must be based on evidence** which can be found within the candidate's Technological Project pro forma.

Candidates should be encouraged to give reasons for any statements they make in the evaluation.

Candidates may find it helpful to use some of the headings for Steps 1 – 3 in the pro forma for the evaluation.

Page 18 of the pro forma should be used for the evaluation of the overall plan.

Total – 6 marks

Technological Project Intermediate 2 Summary Mark Allocation

Step	Mark Breakdown	Allocation
1 . 1	Identification of the key points with explanation Identify the key points Key points plus basic and accurate explanation Key points plus detailed and accurate explanation	2 marks 2 marks 1 mark Total mark allocation 5
1 . 2	Draw up appropriate criteria for a specification Allow for a range of solutions Contain more detail than the brief Be written in measurable terms	1 mark 1 mark 2 marks Total mark allocation 4
1 . 3	Devise an overall plan for investigations List a range of relevant investigations Identify techniques to be used	2 marks 2 marks Total mark allocation 4
Total mark allocation for Step 1		13 marks
2 . 1	Implement the overall plan for investigations Holistic approach	Total mark allocation 12
2 . 2	Derive a solution From the investigation generate one solution Brief description of the solution	2 marks 1 mark Total mark allocation 3
Total mark allocation for Step 2		15 marks

Step	Mark Breakdown	Allocation
3 . 1	Manufacture the chosen solution	
	Requisitions all main resources	3 marks
	Requisitions most main resources	2 marks
	Requisitions some main resources	1 mark
		Total mark allocation 3
	Requisitions all main equipment	3 marks
	Requisitions most main equipment	2 marks
	Requisitions some main equipment	1 mark
		Total mark allocation 3
	Highly effective sequence of work	3 marks
	Effective sequence of work	2 marks
	Satisfactory sequence of work	1 mark
		Total mark allocation 3
	Highly effective deployment of time (time plan)	3 marks
	Effective deployment of time (time plan)	2 marks
	Satisfactory deployment of time (time plan)	1 mark
		Total mark allocation 3
3 . 2	Devise a test for the manufactured solution	
	One test presented with appropriate technique identified	1 mark
		Total mark allocation 1
3 . 3	Implement the test for the manufactured solution	
	Brief, concise and easy to interpret results	1 mark
	Results based on fact and relevant	1 mark
	Brief conclusions based on results	1 mark
		Total mark allocation 3
Total mark allocation for Step 3		16 marks
4 . 1	Evaluate the chosen solution	
	Evaluation of specification points	3 marks
		Total mark allocation 3
	Evaluation of overall plan against set criteria: time/resources/ skills and abilities	3 marks
		Total mark allocation 3
Total mark allocation for Step 4		6 marks

Total 50 marks available

Appendix 1

Intermediate 2 Technological Project Guidance on carrying out Investigations/Tests

Three investigations and one test must be carried out.

The aim, which should be linked to the candidate' specification, should be rewritten or cut and pasted from page 8 of the pro forma onto the top of the investigation page.

Questionnaire

- Minimum of 20 respondents.
- Minimum 5/8 relevant/valid questions linked to aim/specification to allow relevant data to be collected.
- Questions and all possible answers must be displayed.
- All responses must be displayed including nil responses.
- Given constraints of space, it is not necessary to display results as pie charts/graphs.
- Table format for displaying results of questionnaires can be space saving.

Survey

- Must identify the source(s) of information.
- Source of information must be relevant to investigation.
- The following sources could be used including the Internet, literary, shop, restaurant/café as a source of information.
- The source of information should be identified.
- The place selected should be related to the quality and quantity of the data available rather than the number of sources however more than one source should be used.
- Information should be displayed using appropriate headings, sub-divisions etc.

Interviews

- Carefully consider the suitability of the person interviewed. Must clearly identify their position in establishment/job title.
- Minimum 5/8 relevant questions linked to aim/specification to allow relevant data to be collected.
- Open-ended questions should be used to allow more data to be collected from the interviewee.
- Questions should be carefully formatted to extract useful facts and avoid one word responses such as Yes/No.
- All questions and responses must be displayed.

Internet/Literary Search

- All sources must be clearly identified.
- Should be related to the quality/quantity/relevance of the data available rather than the number of sources.
- Graphics may be included where relevant.
- Data collected should be organised using appropriate headings/sub-divisions etc.
- Information should not be lifted 'en bloc' from websites. It is appropriate to summarise key points which are relevant to the aim/specification.

Costing

- Breakdown cost of all ingredients/components must be included.
- Details of quantities and unit costs must be included.
- Sources should be included where appropriate.
- Comparative costing should measure 'like for like'

NB Costing only proves cost of items/components. On its own it does not provide low/high cost, value for money, acceptability or price to target group.

Fabric Analysis

- There is no need to repeat fabric tests where information is already easily available in textbooks/websites.
- Fabrics used for testing must be clearly identified ie construction/fibre composition.
- Only fabrics being considered for potential solution should be tested/sampled/ investigated towards final solution.
- Details of method of testing must be given.

Sensory Testing

- All potential solutions must be clearly described.
- Breakdown of results must be shown. Summary of results is not acceptable.
- Key must be provided.
- It is appropriate to ask questions to elicit potential improvements/modifications.
- It is suggested for sensory testing that a minimum of five people are used to assess the products.

[END OF MARKING INSTRUCTIONS]