



# **2012 Lifestyle and Consumer 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 food or textile item to support a local charity

##### Brief 2

Develop a food or textile item to be sold at a health event

##### Brief 1

###### Key points

1. Develop
2. (a) food (or) textile
3. item
4. (to) support
5. (a) local
6. charity

##### Brief 2

###### Key points

1. Develop
2. (a) food (or) textile
3. item
4. (to be) sold
5. (at a) health
6. event

#### 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 – Local charity			
	Specification point	Measured by:	Identified expert

### Brief specific

1	<ul style="list-style-type: none"> <li>be different to other products already available/be original</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> <li>Survey of retail outlets/ Internet search</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ appropriate teacher/retailer/ charity staff</li> </ul>
2	<ul style="list-style-type: none"> <li>be edible/a fabric item</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> <li>Component checklist/recipe analysis</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist</li> </ul>
3	<ul style="list-style-type: none"> <li>be a single item</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> <li>Component checklist/recipe analysis</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ retailer/charity staff</li> </ul>
4	<ul style="list-style-type: none"> <li>be suitable to be sold locally</li> </ul>	<ul style="list-style-type: none"> <li>Interview/questionnaire</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ appropriate teacher/retailer/ charity staff</li> </ul>
5	<ul style="list-style-type: none"> <li>be suitable for the charity/aid organisation</li> </ul>	<ul style="list-style-type: none"> <li>Interview/questionnaire</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ appropriate teacher/retailer/ charity staff</li> </ul>
6	<ul style="list-style-type: none"> <li>be suitable for the target group</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ appropriate teacher/retailer/ charity staff</li> </ul>
7	<ul style="list-style-type: none"> <li>take account of current trends/be fashionable</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ retailer/target group/charity staff</li> </ul>

### Target group

8	<ul style="list-style-type: none"> <li>take account of the likes/dislikes of target group</li> </ul>	<ul style="list-style-type: none"> <li>Interview/questionnaire/survey/ sensory evaluation</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ retailer/target group/charity staff</li> </ul>
9	<ul style="list-style-type: none"> <li>be aesthetically pleasing to target group</li> </ul>	<ul style="list-style-type: none"> <li>Interview/questionnaire/survey/ sensory evaluation</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ retailer/target group/charity staff</li> </ul>
10	<ul style="list-style-type: none"> <li>take account of allergies</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ retailer/health professional</li> </ul>
11	<ul style="list-style-type: none"> <li>be healthy/take account of current dietary targets</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food technologist/dietician/ health professional</li> </ul>
12	<ul style="list-style-type: none"> <li>take account of nutritional needs of target group</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> <li>Nutritional analysis &amp; interview</li> </ul>	<ul style="list-style-type: none"> <li>Food technologist/dietician/ health professional</li> </ul>
13	<ul style="list-style-type: none"> <li>take account of religious/moral/ cultural beliefs of the target group</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ appropriate teacher/retailer/ target group</li> </ul>

## Cost/quality

14	<ul style="list-style-type: none"> <li>be comparable in cost to other products in the range</li> </ul>	<ul style="list-style-type: none"> <li>Costing exercise &amp; price check/comparison</li> <li>Costing exercise &amp; interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/target group/charity staff</li> </ul>
15	<ul style="list-style-type: none"> <li>be cost effective/good value for money</li> </ul>	<ul style="list-style-type: none"> <li>Costing exercise &amp; interview/survey</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/target group/charity staff</li> </ul>
16	<ul style="list-style-type: none"> <li>be within the budget of the target group/charity</li> </ul>	<ul style="list-style-type: none"> <li>Costing exercise &amp; interview/survey</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/target group/charity staff</li> </ul>
17	<ul style="list-style-type: none"> <li>be of an acceptable/satisfactory standard for sale/be safe</li> </ul>	<ul style="list-style-type: none"> <li>Interview/sensory testing</li> <li>Quality checklist &amp; interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/target group/charity staff/Trading Standards Officer/Environmental Health Officer</li> </ul>

## Manufacture

18	<ul style="list-style-type: none"> <li>be made using the facilities/resources available to the candidate</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist</li> </ul>
19	<ul style="list-style-type: none"> <li>be made in the time available to the candidate</li> </ul>	<ul style="list-style-type: none"> <li>Timed trial of prototype &amp; interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist</li> </ul>
20	<ul style="list-style-type: none"> <li>be within the capabilities of the candidate</li> </ul>	<ul style="list-style-type: none"> <li>Trial of prototype &amp; interview</li> <li>Skills analysis &amp; interview</li> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist</li> </ul>
21	<ul style="list-style-type: none"> <li>be made using the facilities/resources available to the charity</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/charity staff</li> </ul>
22	<ul style="list-style-type: none"> <li>be made in the time available to the charity</li> </ul>	<ul style="list-style-type: none"> <li>Timed trial of prototype &amp; interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/charity staff</li> </ul>
23	<ul style="list-style-type: none"> <li>be within the capabilities of the charity</li> </ul>	<ul style="list-style-type: none"> <li>Trial of prototype &amp; interview</li> <li>Skills analysis &amp; interview</li> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/charity staff</li> </ul>
24	<ul style="list-style-type: none"> <li>be prepared under safe/hygienic conditions/safe to eat</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> <li>Quality checklist &amp; interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/Environmental Health Officer</li> </ul>

## Production

25	<ul style="list-style-type: none"> <li>be easy to prepare/cook/reheat/transport</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> <li>Skills analysis &amp; check</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/charity staff</li> </ul>
26	<ul style="list-style-type: none"> <li>be easy to launder/care for</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> <li>Skills analysis &amp; check</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/charity staff</li> </ul>
27	<ul style="list-style-type: none"> <li>be suitable to be made in advance</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/charity staff</li> </ul>
28	<ul style="list-style-type: none"> <li>have an appropriate shelf life</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/charity staff/ Environmental Health Officer</li> </ul>
29	<ul style="list-style-type: none"> <li>be suitable for mass production</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/charity staff</li> </ul>
30	<ul style="list-style-type: none"> <li>be suitable for the season of the year</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> <li>Literary/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/charity staff</li> </ul>

### Note:

- The candidate **must** specify the term 'expert' if used.
- A food/textile technologist could include a person working in food/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 – Health event			
	Specification point	Measured by:	Identified expert

### Brief specific

1	<ul style="list-style-type: none"> <li>be different to other products already available/be original</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> <li>Survey of retail outlets/ Internet search</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/event organiser/retailer/target group</li> </ul>
2	<ul style="list-style-type: none"> <li>be edible/a fabric item</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> <li>Component checklist/recipe analysis</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer</li> </ul>
3	<ul style="list-style-type: none"> <li>be a single item</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> <li>Component checklist/recipe analysis</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer</li> </ul>
4	<ul style="list-style-type: none"> <li>promote health/be healthy/take account of current dietary targets</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/dietician/retailer/health professional</li> </ul>
5	<ul style="list-style-type: none"> <li>be suitable for target group</li> </ul>	<ul style="list-style-type: none"> <li>Interview/questionnaire/survey</li> <li>Ingredients/nutritional analysis &amp; check</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/health professional</li> <li>Food/textile technologist/dietician/retailer/health professional</li> </ul>
6	<ul style="list-style-type: none"> <li>be suitable for a health event</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/event organiser/retailer</li> </ul>
7	<ul style="list-style-type: none"> <li>be compatible/fit into the current range</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ event organiser/retailer</li> </ul>
8	<ul style="list-style-type: none"> <li>take account of current trends/be fashionable</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ event organiser/retailer/target group</li> </ul>

### Target Group

9	<ul style="list-style-type: none"> <li>take account of the likes/dislikes of target group</li> </ul>	<ul style="list-style-type: none"> <li>Interview/questionnaire/survey/sensory evaluation</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/event organiser/retailer/target group</li> </ul>
10	<ul style="list-style-type: none"> <li>be aesthetically pleasing to target group</li> </ul>	<ul style="list-style-type: none"> <li>Interview/questionnaire/survey/sensory evaluation</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/event organiser/retailer/target group</li> </ul>
11	<ul style="list-style-type: none"> <li>take account of allergies</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/health professional</li> </ul>
12	<ul style="list-style-type: none"> <li>take account of current dietary targets/nutritional needs of target group</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/dietician/health professional/retailer</li> </ul>
13	<ul style="list-style-type: none"> <li>take account of religious/moral/cultural beliefs of the target group</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/event organiser/retailer/target group</li> </ul>

## Cost/quality

14	<ul style="list-style-type: none"> <li>be comparable in cost to other products at the event</li> </ul>	<ul style="list-style-type: none"> <li>Costing exercise &amp; price check/ comparison</li> <li>Costing exercise &amp; interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ event organiser/retailer/target group</li> </ul>
15	<ul style="list-style-type: none"> <li>be cost effective/ good value for money</li> </ul>	<ul style="list-style-type: none"> <li>Costing exercise &amp; interview/ survey</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ event organiser/retailer/target group</li> </ul>
16	<ul style="list-style-type: none"> <li>be within the budget of the target group</li> </ul>	<ul style="list-style-type: none"> <li>Costing exercise &amp; interview/ survey</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ event organiser/retailer/target group</li> </ul>
17	<ul style="list-style-type: none"> <li>be of an acceptable/ satisfactory Standard for sale/be safe</li> </ul>	<ul style="list-style-type: none"> <li>Interview/sensory testing</li> <li>Quality checklist &amp; interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ event organiser/retailer/target group/Trading Standards Officer/Environmental Health Officer</li> </ul>

## Manufacture

18	<ul style="list-style-type: none"> <li>be made using the facilities/resources available to the candidate</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist</li> </ul>
19	<ul style="list-style-type: none"> <li>be made in the time available to the candidate</li> </ul>	<ul style="list-style-type: none"> <li>Timed trial of prototype &amp; interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist</li> </ul>
20	<ul style="list-style-type: none"> <li>be within the capabilities of the candidate</li> </ul>	<ul style="list-style-type: none"> <li>Trial of prototype &amp; interview</li> <li>Skills analysis &amp; interview</li> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist</li> </ul>
21	<ul style="list-style-type: none"> <li>be made using the facilities/resources available to the retailer</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ retailer</li> </ul>
22	<ul style="list-style-type: none"> <li>be made in the time available to the retailer</li> </ul>	<ul style="list-style-type: none"> <li>Timed trial of prototype &amp; interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ retailer</li> </ul>
23	<ul style="list-style-type: none"> <li>be within the capabilities of the retail staff</li> </ul>	<ul style="list-style-type: none"> <li>Trial of prototype &amp; interview</li> <li>Skills analysis &amp; interview</li> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ retailer</li> </ul>
24	<ul style="list-style-type: none"> <li>be prepared under safe/hygienic conditions/safe to eat</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> <li>Quality checklist &amp; interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/ retailer/Environmental Health Officer</li> </ul>



## Production

25	<ul style="list-style-type: none"> <li>be easy to prepare/cook/reheat/transport</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> <li>Skills analysis &amp; check</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/event organiser/retailer</li> </ul>
26	<ul style="list-style-type: none"> <li>be easy to launder/care for</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> <li>Skills analysis &amp; check</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer</li> </ul>
27	<ul style="list-style-type: none"> <li>be suitable to be made in advance</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/event organiser/retailer</li> </ul>
28	<ul style="list-style-type: none"> <li>have an appropriate shelf life</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer/Environmental Health Officer</li> </ul>
29	<ul style="list-style-type: none"> <li>be suitable for mass production</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/retailer</li> </ul>
30	<ul style="list-style-type: none"> <li>be suitable for the season of the year</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> <li>Literary/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>Food/textile technologist/event organiser/retailer</li> </ul>

### Note:

- The candidate **must** specify the term 'expert' if used.
- A food/textile technologist could include a person working in food/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"><li>• the key points of the project brief</li><li>• the specification points</li><li>• and have a clear aim/purpose</li></ul>	<b>2 marks</b>
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Candidates who provide a list of investigations <ul style="list-style-type: none"><li>• which do not focus clearly on the key points and the specification will be awarded</li></ul>	<b>1 mark</b>
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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	<b>2 marks</b>
½ or more, but not all techniques are correctly identified	<b>1 mark</b>
Less than ½ of the techniques are correctly identified	<b>0 marks</b>

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

- local charity

Brief 1 – Local charity			
	Investigation	Technique	Identified expert

#### Brief specific

1	Range of potential ingredients/textiles/components	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Literary/Internet search</li> <li>• Survey of retail outlets</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer</li> </ul>
2	Potential (local) charities	<ul style="list-style-type: none"> <li>• Interview/survey/questionnaire</li> <li>• Literary/Internet search</li> <li>• Survey of retail/charity outlets</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/appropriate teacher/retailer/charity staff</li> </ul>
3	Potential methods of support of (local) charity	<ul style="list-style-type: none"> <li>• Interview/survey/questionnaire</li> <li>• Literary/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/appropriate teacher/retailer/target group/charity staff</li> </ul>
4	Types of items to support the charity	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Literary/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/appropriate teacher/retailer/target group/charity staff</li> </ul>
5	Current range of charity support items	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Survey of retail outlets/charities</li> <li>• Literary/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/target group</li> </ul>
6	Current trends/fashion	<ul style="list-style-type: none"> <li>• Interview/survey/questionnaire</li> <li>• Survey of retail outlets/charities</li> <li>• Literary/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/target group/charity staff</li> </ul>
7	Suitability for target group	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/target group/charity staff</li> </ul>
8	Ideas for potential solutions	<ul style="list-style-type: none"> <li>• Survey of retail outlets</li> <li>• Literary/Internet/recipe/pattern search</li> <li>• Trial of prototype(s)</li> <li>• Interview/survey/questionnaire/sensory testing</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/target group/charity staff</li> </ul>

#### Target Group

9	Likes/dislikes of target group	<ul style="list-style-type: none"> <li>• Interview/questionnaire/survey/sensory evaluation</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/target group/charity staff</li> </ul>
10	Aesthetic appeal to target group	<ul style="list-style-type: none"> <li>• Interview/questionnaire/survey/sensory evaluation</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/target group/charity staff</li> </ul>
11	Potential allergens	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/health professional/charity staff</li> </ul>
12	Religious/cultural beliefs of target group	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Literary/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/appropriate teacher/retailer/target group/charity staff</li> </ul>
13	Appropriate portion size/product size	<ul style="list-style-type: none"> <li>• Interview/questionnaire/survey/sensory evaluation</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/target group/charity staff</li> </ul>

## Cost/quality

14	Cost of potential ingredients/components/solutions	<ul style="list-style-type: none"> <li>• Costing exercise</li> </ul>	
15	Price range of similar dishes/items	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Survey of current product range/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/target group/charity staff</li> </ul>
16	Budget of the target group/amount target group is prepared to pay	<ul style="list-style-type: none"> <li>• Interview/questionnaire</li> <li>• Costing exercise &amp; interview/survey/questionnaire</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/target group/charity staff</li> </ul>
17	Quality requirements of potential solutions	<ul style="list-style-type: none"> <li>• Interview/survey/sensory testing/questionnaire</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/target group/charity staff</li> </ul>

## Manufacture

18	Facilities/resources available to the candidate	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist</li> </ul>
19	Time available to the candidate	<ul style="list-style-type: none"> <li>• Timed trial of prototype &amp; interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist</li> </ul>
20	Capabilities of the candidate	<ul style="list-style-type: none"> <li>• Trial of prototype</li> <li>• Time plan/checklist</li> <li>• Skills analysis</li> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist</li> </ul>
21	Facilities/resources available to the charity	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/charity staff</li> </ul>
22	Time available to the retailer/charity	<ul style="list-style-type: none"> <li>• Timed trial of prototype &amp; interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/charity staff</li> </ul>
23	Capabilities of the charity	<ul style="list-style-type: none"> <li>• Trial of prototype</li> <li>• Skills analysis</li> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/charity staff</li> </ul>
24	Hygiene/safety requirements for food production	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/Environmental Health Officer</li> </ul>

## Production

25	Preparation/cooking/ reheating/transport requirements	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Skills analysis &amp; check</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/ retailer/chef/charity staff</li> </ul>
26	Safety in use/safe to eat	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/ chef/Environmental Health Officer/Trading Standards Officer/charity staff</li> </ul>
27	Care requirements of materials/resources used	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Literary/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/ retailer/charity staff</li> <li>• Trial of prototype</li> </ul>
28	Suitability for making in advance	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/ retailer/charity staff</li> </ul>
29	Appropriate shelf life	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Literary/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/ retailer/charity staff/ Environmental Health Officer</li> </ul>
30	Suitability for mass production	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/ retailer/charity staff</li> </ul>
31	Implications of seasonality	<ul style="list-style-type: none"> <li>• Literary/Internet search</li> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/ retailer/charity staff</li> </ul>
32	Influencing factors on final product	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/ retailer/charity staff</li> </ul>

### Note:

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

## Step 1.3 INVESTIGATIONS

### Required investigations

- health
- event

Brief 2 – Health event			
	Investigation	Technique	Identified expert

### Brief specific

1a	Current health advice	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Literary/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/dietician/appropriate teacher</li> </ul>
1b	Range of potential ingredients/textiles/components	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Literary/Internet search</li> <li>• Survey of retail outlets</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer</li> </ul>
2	Potential range of food/textile items (to promote health)	<ul style="list-style-type: none"> <li>• Interview/survey/questionnaire</li> <li>• Literary/Internet search</li> <li>• Survey of retail outlets</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/dietician/event organiser/retailer/target group</li> </ul>
3	Types of health events	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Survey of retail outlets/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/event organiser</li> </ul>
4	Current range of food/textile items to promote health	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Survey of retail outlets/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/event organiser/target group</li> </ul>
5	Current range of food/textile items for sale at health events	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Survey of retail outlets/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/event organiser</li> </ul>
6	Current trends	<ul style="list-style-type: none"> <li>• Interview/survey/questionnaire</li> <li>• Survey of retail outlets</li> <li>• Literary/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/event organiser/retailer/target group</li> </ul>
7	Suitability for sale at a health event	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/event organiser</li> </ul>
8	Ideas for potential solutions	<ul style="list-style-type: none"> <li>• Survey of retail outlets</li> <li>• Literary/Internet/recipe/pattern search</li> <li>• Trial of prototype(s)</li> <li>• Interview/survey/questionnaire/sensory testing</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/event organiser/target group</li> </ul>

### Target group

9	Likes/dislikes of target group	<ul style="list-style-type: none"> <li>• Interview/questionnaire/survey/sensory evaluation</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/event organiser/retailer/target group</li> </ul>
10	Aesthetic appeal to target group	<ul style="list-style-type: none"> <li>• Interview/questionnaire/survey/sensory evaluation</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/event organiser/retailer/target group</li> </ul>
11	Potential allergens	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/retailer/health professional</li> </ul>
12	Religious/cultural beliefs of target group	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Literary/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/event organiser/retailer/target group</li> </ul>
13	Appropriate portion size/product size	<ul style="list-style-type: none"> <li>• Interview/questionnaire/survey/sensory evaluation</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/event organiser retailer/target group</li> </ul>

## Cost/quality

14	Cost of potential ingredients/components/solutions	<ul style="list-style-type: none"> <li>• Costing exercise</li> </ul>	
15	Price range of similar dishes/items	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Survey of current product range/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/event organiser/retailer/target group</li> </ul>
16	Budget of the target group/amount target group is prepared to pay	<ul style="list-style-type: none"> <li>• Interview/questionnaire</li> <li>• Costing exercise &amp; interview/survey/questionnaire</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/event organiser/retailer/target group</li> </ul>
17	Quality requirements of potential solutions	<ul style="list-style-type: none"> <li>• Interview/survey/sensory testing/questionnaire</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/event organiser/retailer/target group</li> </ul>

## Manufacture

18	Facilities/resources available to the candidate	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist</li> </ul>
19	Time available to the candidate	<ul style="list-style-type: none"> <li>• Timed trial of prototype &amp; interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist</li> </ul>
20	Capabilities of the candidate	<ul style="list-style-type: none"> <li>• Trial of prototype</li> <li>• Skills analysis</li> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist</li> </ul>
21	Facilities/resources available to the retailer	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/event organiser/retailer</li> </ul>
22	Time available to the retailer	<ul style="list-style-type: none"> <li>• Timed trial of prototype &amp; interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/event organiser/retailer</li> </ul>
23	Capabilities of the retail staff	<ul style="list-style-type: none"> <li>• Trial Of prototype</li> <li>• Skills analysis</li> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/event organiser/retailer</li> </ul>
24	Hygiene/safety requirements for food production	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/event organiser/retailer/ Environmental Health Officer</li> </ul>

## Production

25	Preparation/cooking/ reheating/transport requirements	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Skills analysis &amp; check</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/event organiser/retailer/target group</li> </ul>
26	Safety in use/safe to eat	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/ Environmental Health Officer/Trading Standards Officer</li> </ul>
27	Care requirements of materials/resources used	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Literary/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/ retailer</li> <li>• Trial of prototype</li> </ul>
28	Suitability for making in advance	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/event organiser/retailer</li> </ul>
29	Appropriate shelf life	<ul style="list-style-type: none"> <li>• Interview</li> <li>• Literary/Internet search</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/ retailer/Environmental Health Officer</li> </ul>
30	Suitability for mass production	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/ retailer</li> </ul>
31	Implications of seasonality	<ul style="list-style-type: none"> <li>• Literary/Internet search</li> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/event organiser/retailer</li> </ul>
32	Influencing factors on final product	<ul style="list-style-type: none"> <li>• Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Food/textile technologist/event organiser/retailer</li> </ul>

### Note:

- The candidate **must** specify the term 'expert' if used
- A food/textile technologist could include a person working in food/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' 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	<b>1 mark</b>
The investigation contains brief, concise and easy to interpret results	<b>1 mark</b>
Results are based on fact and relevant to brief	<b>1 mark</b>
Conclusion is based on results/shows progression	<b>1 mark</b>

**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:** Local charity  
**Possible solutions**

Any food or textile item suitable to support a local charity

**Brief 2:** Health event  
**Possible solutions**

Any food or textile item suitable to be sold at a health event

**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 <b>all</b> the main resources	3 marks
Candidates who requisition <b>most</b> of the main resources	2 marks
Candidates who only requisition <b>some</b> 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 <b>all</b> the main equipment	3 marks
Candidates who identify and requisition <b>most</b> of the main equipment	2 marks
Candidates who identify and requisition <b>some</b> 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 – <b>all</b> activities planned in correct order	3 marks
Sequence of work is effective – <b>most</b> activities planned in the correct order	2 marks
Sequence of work is satisfactory – <b>some</b> 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**

<b>Test</b>	<b>Technique</b>
1. Examination by a specified expert eg food/textile technologist/retailer/target group	<ul style="list-style-type: none"><li>• Interview/questionnaire with specified expert</li><li>• Sensory testing with specified expert</li></ul>
2. Examination by target group	<ul style="list-style-type: none"><li>• Interview/questionnaire</li><li>• Sensory evaluation</li><li>• Observational checklist</li><li>• Wearer/user trial by target group</li></ul>
3. Costing exercise	<ul style="list-style-type: none"><li>• Costing exercise confirmed by interview with specified expert, eg food/textile technologist/retailer</li></ul>
4. Nutritional analysis	<ul style="list-style-type: none"><li>• Literary/Internet/CD search &amp; interview with food/textile technologist/dietician</li></ul>

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

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

**3 : 3      Implement the test for the manufactured solution**

<p><b>Brief, concise and easy to interpret results</b></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"><li>• brief</li><li>• concise</li><li>• easy to interpret.</li></ul>	<p><b>1 mark</b></p>
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<p><b>Factual and relevant results</b></p> <p>Results should be</p> <ul style="list-style-type: none"><li>• derived from the investigation</li><li>• based on facts and evidence.</li></ul>	<p><b>1 mark</b></p>
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<p><b>Brief conclusion based on results</b></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"><li>• factually correct</li><li>• based on the evidence provided by the results.</li></ul>	<p><b>1 mark</b></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	<b>Identification of the key points with explanation</b>  Identify the key points Key points plus basic and accurate explanation Key points plus detailed and accurate explanation	2 marks 2 marks 1 mark <b>Total mark allocation 5</b>
1 . 2	<b>Draw up appropriate criteria for a specification</b>  Allow for a range of solutions Contain more detail than the brief Be written in measurable terms	1 mark 1 mark 2 marks <b>Total mark allocation 4</b>
1 . 3	<b>Devise an overall plan for investigations</b>  List a range of relevant investigations Identify techniques to be used	2 marks 2 marks <b>Total mark allocation 4</b>
<b>Total mark allocation for Step 1</b>		<b>13 marks</b>
2 . 1	<b>Implement the overall plan for investigations</b>  Holistic approach	<b>Total mark allocation 12</b>
2 . 2	<b>Derive a solution</b>  From the investigation generate one solution Brief description of the solution	2 marks 1 mark <b>Total mark allocation 3</b>
<b>Total mark allocation for Step 2</b>		<b>15 marks</b>



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

**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]