



GCSE MARKING SCHEME

SUMMER 2024

**GCSE
DESIGN AND TECHNOLOGY
FASHION & TEXTILES - UNIT 1
3602U10-1**

About this marking scheme

The purpose of this marking scheme is to provide teachers, learners, and other interested parties, with an understanding of the assessment criteria used to assess this specific assessment.

This marking scheme reflects the criteria by which this assessment was marked in a live series and was finalised following detailed discussion at an examiners' conference. A team of qualified examiners were trained specifically in the application of this marking scheme. The aim of the conference was to ensure that the marking scheme was interpreted and applied in the same way by all examiners. It may not be possible, or appropriate, to capture every variation that a candidate may present in their responses within this marking scheme. However, during the training conference, examiners were guided in using their professional judgement to credit alternative valid responses as instructed by the document, and through reviewing exemplar responses.

Without the benefit of participation in the examiners' conference, teachers, learners and other users, may have different views on certain matters of detail or interpretation. Therefore, it is strongly recommended that this marking scheme is used alongside other guidance, such as published exemplar materials or Guidance for Teaching. This marking scheme is final and will not be changed, unless in the event that a clear error is identified, as it reflects the criteria used to assess candidate responses during the live series.

GCSE DESIGN AND TECHNOLOGY

FASHION & TEXTILES - UNIT 1

SUMMER 2024 MARK SCHEME

Question 1		AO3	AO4	Mark
	Weaving is one method of constructing textile materials.			
(a) (i)	Select the correct name from the list below for each of the weave formations shown. <i>Only acceptable answers in this order:</i> Twill Satin Plain		✓	3 x [1]
(ii)	The party dress below has been made from a velvet material which has a pile weave construction. Explain how a pile weave differs from the three weave formations pictured in (i).		✓	2
	<p><i>Answers that indicate an understanding of pile weave should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • An additional weft yarn in the weave forms raised loops which are cut to form the pile – raised surface. Brushing makes this raised pile more plush as in velvet. • The three pictured weaves have flat surfaces by comparison – one weft yarn. <p>Guidance to markers</p> <p><i>Incorrect/no answer</i></p> <p><i>Brief explanation for example:</i> It has a raised surface.</p> <p><i>More detail with understanding for example:</i> Velvet has a plush raised surface from the extra weft yarn, the others are all flat.</p>			0 1 2

(b) (i)	When cutting out the party dress, all the template pieces are laid out in the same direction. Explain the importance of following this rule when using velvet material.		✓	3
<p><i>Answers that indicate an understanding of the one direction rule for cutting velvet should be awarded up to 3 marks based on:</i></p> <ul style="list-style-type: none"> • Shading will be apparent on velvet when viewed from different directions, this will be reflected in any garment where pieces are not cut in the same direction. • Pile weave/velvet has a ‘nap’ – a direction that the cut yarns naturally lie. When brushed or smoothed down one direction will feel smoother than the other. The whole garment should feel the same hence it should be cut in one direction only. <p>Guidance to markers</p> <p><i>Incorrect/no answer</i> 0</p> <p><i>Brief explanation, little understanding for example:</i> Velvet could show shading. 1</p> <p><i>A more detailed explanation with some understanding for example:</i> Velvet shows shading when viewed from different directions and could appear to be a different colour. 2</p> <p><i>A full and detailed explanation with very clear understanding for example:</i> As Velvet shows shading when viewed from different directions, this would be noticeable on a garment if template pieces were cut in different directions. One part would appear a different colour to the other. 3</p>				
(ii)	Describe one reason for choosing to use a velvet fabric for the party dress.		✓	2
<p><i>Answers that indicate an understanding of using the velvet material for the dress should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • It has a luxurious rich texture • It looks expensive • Velvet is the epitome of luxury • Can make you feel more glamorous when worn • Gives the wearer a sense of style • It makes clothes look like a high-end luxury brand <p>Guidance to markers</p> <p><i>Incorrect / no answer</i> 0</p> <p><i>Brief statement not developed for example:</i> It’s a luxurious looking fabric to wear. 1</p> <p><i>A detailed reason with understanding</i> It is a luxurious looking fabric that will help the wearer feel special when wearing it to an event such as a party. 2</p>				
Total				10

Question 2

Fashion and textile manufacturers can reduce the industry's carbon footprint by adopting more sustainable ways of producing products.		AO3	AO4	Mark
(a) (i)	Name the renewable energy sources indicated by the pictures below that could help reduce the industry's carbon footprint.		✓	2 x [1]
<p>Guidance to markers</p> <p><i>Incorrect/no answer</i></p> <p><i>Only acceptable answers:</i></p> <ul style="list-style-type: none"> • <i>Source 1: Hydro</i> • <i>Source 2: Wave / tidal</i> 				0 1 1
(ii)	Describe one disadvantage associated with the use of wind turbines as a sustainable way of producing energy.		✓	1
<p><i>Award one mark for a correct answer based on any of the following disadvantages:</i></p> <ul style="list-style-type: none"> • No wind - no electricity can be generated as turbines will not operate • If the wind is too strong, the turbines are turned off to prevent damage – no electricity generated • Many consider wind turbines to be unsightly and they are noisy • Careful consideration is given to where turbines can be placed to maximise efficiency • Takes up a significant portion of land • High upfront investment needed • May reduce the local bird population • Once removed, wind turbines are not easy to reuse <p>Guidance to markers</p> <p><i>Incorrect/no answer</i></p> <p><i>Brief description of disadvantage with appropriate detail for example:</i> If there is no wind to turn the turbines, no electricity can be generated as turbines will not operate – loss of supply.</p>				0 1

(b) (i)	Globalisation allows fashion and textile manufacturers to trade and operate on an international scale. Explain how globalisation has contributed to the increase in the fashion and textile industry's carbon footprint.		✓	3
<p><i>Answers that indicate an understanding of globalisation's impact on the industry's carbon footprint should be awarded up to 3 marks based on:</i></p> <ul style="list-style-type: none"> • Factories manufacturing products and end-markets are not in the same country therefore huge transportation of goods from one place to another is necessary – increase in carbon footprint. • Materials and components are sourced from the cheapest places to save on costs – more transportation of goods, increase carbon footprint. • Personnel travelling globally to conduct business. • Increased demand leads to an increase in the production of goods and puts a strain on natural resources. • Massive factories have been built in developing countries to serve the demand for globally traded goods; these factories are not necessarily environmentally friendly operations. • Increase in pollution levels from the processes used in the increased production. <p>Guidance to markers</p> <p><i>Incorrect/no answer</i></p> <p><i>Brief description, some understanding for example:</i> Transporting goods around the world increases the carbon footprint.</p> <p><i>A more detailed explanation with understanding for example:</i> Materials are sourced in one place but products may be made in a different country, this will increase the carbon footprint.</p> <p><i>A detailed explanation with clear understanding for example:</i> Globalisation allows manufacturers to conduct business across the world but the source of materials, factories and end markets are in different countries. This increases transportation and the industry's carbon footprint.</p>		<p>0</p> <p>1</p> <p>2</p> <p>3</p>		

(ii)	Describe two different examples of how manufacturers could operate more sustainably on a global scale which would also reduce some of the industry's carbon footprint.		✓	4	
<p><i>Answers that indicate an understanding of operating more sustainably on a global scale can be awarded up to 2 marks for each example based on:</i></p> <ul style="list-style-type: none"> • Sourcing materials/components close to the factories – to reduce transport/carbon footprint • Increase use of recycled materials to make products and use less packaging. • Use electric vehicles to transport goods where possible – less reliant on fossil fuels which are not sustainable • Manufacture products closer to markets to reduce need for transporting goods • Use of digital technologies for communication to reduce travel for key personnel – for example online meetings, use of CAD 					
<p>Guidance to markers</p>					
<p><i>Incorrect / no answer</i></p>					0
<p><i>A simple description for example:</i> Manufacture goods closer to the end markets to cut transport/carbon footprint.</p>					1
<p><i>An appropriate example with some detail in the description for example:</i> Reducing the overall transportation of goods will reduce the carbon footprint for example, source materials closer to the factories that manufacture the goods.</p>					2
Total				10	

Question 3

Interactive and smart fibres and fabrics are used throughout fashion and textiles.		AO3	AO4	Mark
(a)	Place a tick (✓) in the table below to indicate which statements are true or false.		✓	3 x [1]
	<p>Only acceptable answers in this order:</p> <ul style="list-style-type: none"> • False • True • False 			<p>1</p> <p>1</p> <p>1</p>
(b) (i)	Explain what is meant by the term 'micro-encapsulation.'		✓	2
	<p><i>Answers that indicate an understanding of the term micro-encapsulation should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • Solid particles or liquid droplets are coated and entrapped on a microscopic level on textile fabrics. • The particles/droplets that are incorporated onto textile fabrics include moisturisers, vitamins, anti-bacterial treatments or perfumes – adding cosmetic, therapeutic and medical properties to fabrics. • When pressure is exerted or the surface of the fabric is scratched, it releases the compounds inside the capsules. <p>Guidance to markers</p> <p><i>Incorrect / no answer</i></p> <p><i>Brief description, lacks detail for example:</i> Tiny particles or liquid droplets such as perfumes are applied to textile fabrics.</p> <p><i>Some detail with understanding for example</i> Microscopic particles or liquid droplets such as perfumes or moisturisers are incorporated onto textile fabrics and released through friction to the benefit of the user.</p>			<p>0</p> <p>1</p> <p>2</p>

(ii)	<p>Explain how a micro-encapsulated fabric could be beneficial to a user in the following situations:</p> <ul style="list-style-type: none"> • Dry skin condition such as eczema • Medical dressings 		✓	4
<p><i>Answers that indicate an understanding of microencapsulation in the stated situations should be awarded up to 2 marks each based on:</i></p> <p><u>Dry skin condition such as eczema</u></p> <ul style="list-style-type: none"> • Moisturisers or other skin remedies incorporated into textile fabrics could be released as an on-going treatment through clothing for example reducing the need to keep applying the remedies. • This could also reduce the skin's ability to become irritated as the treatments is more regular. <p><u>Medical dressings</u></p> <ul style="list-style-type: none"> • Anti-bacterial treatments, anti-inflammatory drugs or antibiotics incorporated into dressings could be applied directly to a wound. • This might reduce the need to change dressings, and also speed up recovery. • Cross contamination could also be reduced if wounds are not exposed as frequently through the reduced need to change dressings. <p>Guidance to markers</p> <p><i>Incorrect/no answer</i> 0</p> <p><i>Brief description, very little detail for example:</i> Anti-inflammatory drugs could be incorporated into dressings to help a wound heal more quickly. 1</p> <p><i>More detail with understanding of the benefits for example:</i> Anti-inflammatory drugs could be incorporated into dressings and applied directly to a wound reducing the need to change dressings as often. This would help a wound heal more quickly. 2</p>				
(c) (i)	<p>The picture below shows a simple electronic circuit integrated into a textile material. Explain the function and significance of the thread and snap fasteners in this circuit.</p>		✓	3
<p><i>Answers that indicate an understanding of the thread and snap fasteners in the circuit should be awarded up to 3 marks based on:</i></p> <ul style="list-style-type: none"> • The snap fastener acts as an on/off switch to activate or deactivate the circuit – ie close or open the break in the circuit. • The thread is conductive – carries the electrical charge from the battery to activate the LED once the switch is activated. <p>Guidance to markers</p> <p><i>Incorrect/no answer</i> 0</p> <p><i>Brief description, very little detail for example:</i> Closing the snap fastener completes the circuit. 1</p> <p><i>Some detail with some understanding of the thread and/or the snap fasteners for example:</i> The snap fastener acts as a switch to complete the circuit to turn on the light. The thread carries the charge to the light. 2</p> <p><i>A more detailed explanation with clear understanding of both the thread and snap fasteners for example:</i> The thread is conductive carrying the electrical charge to the light. The snap fastener acts as a switch, so when it is closed it completes the electronic circuit so the LED can be lit up. 3</p>				

(ii)	The Hi-Vis jackets worn by the cyclists shown below has LEDs (light emitting diodes) integrated onto the front and back panels. Explain how the LEDs improve the functionality of the Hi-Vis jackets.		✓	3
<p><i>Answers that indicate an understanding of the LEDs in relation to the functionality of the hi-vis jackets should be awarded up to 3 marks based on:</i></p> <p>An understanding of the purpose of high-vis clothing should be evident in any answer:</p> <ul style="list-style-type: none"> • Hi-Vis jackets allow wearers to be seen and visible in different situations ie night time or poor weather conditions. • Hi-Vis jackets are made from fluorescent fabrics to be visible at any time. • Hi-vis jackets have reflective strips that rely on light shining on them to make them more visible ie. headlight, torch, moon light to be seen in dark situations eg.night time. • LEDs can be switched on to increase the level of visibility in dark situations. They add an extra layer of visibility to the wearer as they don't rely on an outside light to reflect on them (provided they are fully charged). <p>Guidance to markers</p> <p><i>Incorrect/no answer</i> 0</p> <p><i>Brief description, some understanding for example:</i> The LEDs will allow the wearer to be seen and more visible in any conditions. 1</p> <p><i>A more detailed explanation with understanding for example:</i> The Hi-Vis jackets allow wearer to be seen in dark conditions where light is reflected but the LEDs add more impact to this function. 2</p> <p><i>A detailed explanation with clear understanding for example:</i> The Hi-Vis jackets allow the wearers to be seen in various different conditions. LEDs add more impact to this function when switched on particularly when conditions do not fully activate the reflective strips on the jackets. The lights will be visible in a wider range of circumstances therefore improving the functionality of the jackets. 3</p>				
Total				15

Question 4

The fashion industry impacts people’s lives and the environment in different ways.		AO3	AO4	Mark
(a) (i)	Explain why a designer might compile a mood board like the one pictured below.		✓	2
	<p><i>Answers that indicate an understanding of mood boards can be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • It helps focus ideas • Brings concepts together to help form a new style • It is the visual interpretation of the collection prior to actual design taking place • Used as inspiration for new ideas • Helps sell a concept to clients <p>Guidance to markers</p> <p><i>Incorrect / no answer</i></p> <p><i>A simple statement for example:</i> Brings all ideas together in one place.</p> <p><i>An explanation with some detail for example:</i> Helps to visual and inspire ideas for new products by bringing all ideas together in one place.</p>			0
				1
				2
(ii)	Explain the role of fashion forecasters in supporting fashion designers.		✓	2
	<p><i>Answers that indicate an understanding of fashion forecasters should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • Forecasters predict upcoming trends often years in advance. • They research the market for indicators of upcoming trends. • They work with designers who use their research to help form their own collections. • This ensures the designers future collections will also be on trend in the appropriate season. <p>Guidance to markers</p> <p><i>Incorrect / no answer</i></p> <p><i>A simple statement for example:</i> They predict future trends for designers to refer to.</p> <p><i>An explanation with some detail for example:</i> Forecasters research and predict future trends which designers refer to when developing new collections. This ensures the designers’ seasonal collections will be on trend and will sell.</p>			0
				1
				2

(iii)	Explain what is meant by the term 'contemporary' fashion		✓	2
<p><i>Answers that indicate an understanding of contemporary fashion should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • Trends and fashion that are currently popular and worn/used by most people. • Could relate to any aspect of for example fashion, furnishings, textiles, interiors, beauty <p>Guidance to markers</p> <p><i>Incorrect / no answer</i></p> <p><i>A simple statement for example:</i> Styles that are currently popular.</p> <p><i>An explanation with some detail for example:</i> Trends in fashion that are currently very popular and are adopted/worn by the majority of people.</p>				
(b)(i)	'Fast fashion' refers to the practice of buying clothes in the latest styles, wearing them a few times then discarding them or throwing them away. Evaluate the environmental impact of 'fast fashion' and a 'throwaway' society		✓	5
<p><i>Answers that indicate an understanding of the impact of fast fashion and a throwaway society and show <u>evidence of appraisal</u> should be awarded up to 5 marks based on:</i></p> <ul style="list-style-type: none"> • Fast fashion is a drain on the world's natural resources, including finite resources that cannot be replaced. • Synthetic fibres are not biodegradable if they end up in landfill -issues related to toxins in landfill. • Synthetic fibres such as polyester, nylon and acrylic take hundreds of years to biodegrade, fibre traces remain in the ground indefinitely. • Cotton is not environmentally friendly to manufacture. • Huge quantities of clothing go to landfill every year. • Environmental damage will affect everyone in the long term including consumers. • Chemicals used in manufacturing have a negative impact on environment – gases (airborn), chemical dyes in water systems affect eco system. Adds to global warming. • The fashion industry is the second biggest consumer and polluter of water – damages the eco-systems. • Emission of greenhouse gases through various manufacturing processes and transportation of goods. • Negative impact of pesticides used in crop fibre production. <p>Guidance to markers</p> <p><i>Incorrect/no answer</i></p> <p>Brief description of the environmental impact of fast fashion and/or a throwaway society. Little evidence of appraisal or judgement.</p> <p>More detailed description and understanding of the environmental impact of fast fashion and a throwaway society. Some evidence of appraisal and/or making a judgement.</p> <p>Clear and detailed description and understanding of the environmental impact of fast fashion and/or a throwaway society. Clear evidence of appraisal and/or judgements.</p>				

(b) (ii)	Analyse the impact on the workers from economically developing countries who are employed to make the clothing described as 'fast fashion'.	✓		5
<p><i>Answers that indicate an understanding of the impact of fast fashion on workers employed in the industry and where answers are supported with <u>logical lines of reasoning</u> should be awarded up to 5 marks based on:</i></p>				
<ul style="list-style-type: none"> • Rapid production means sales and profits supersede human welfare. • There is evidence of forced child labour. • People have jobs and are earning a wage, but this could be at a cost to their health and wellbeing. • Provides jobs / develop local economy / social mobility can improve • Can develop a more ambitious workforce • Improves current situation / employment / status • Exploitation of workers – no union, little in the way of rights. • Poor working conditions, in some cases potentially dangerous. • Long hours and low wages for the majority of workers. • Communities, including workers, close to factories suffer the effects of pollution from the factories and contamination of water ways if industrial practices are not environmentally friendly. • It is common for people in affected communities to suffer from poor health such as skin conditions, lung problems and some cancers. • Not all manufacturers exploit their workers. More socially responsible employers do exist but are few in number by comparison. • Where socially responsible employers exist the health and wellbeing and lifestyles of employees is much improved. 				
<p>Guidance to markers</p>				
<p><i>Incorrect/no answer</i></p>				
<p>Brief description of the impact on the workers from economically developing countries who are employed to make fast fashion clothing but little detail in the explanation. Little evidence of reasoning.</p>				
<p>QWC is limited, presenting material with limited coherence, many errors of grammar, punctuation and spelling.</p>				
<p>More detailed description of the workers from economically developing countries who are employed to make fast fashion clothing with some explanation and detail relating to the impact on their lives. Some evidence of reasoning.</p>				
<p>QWC is good, presenting mainly appropriate material in a coherent manner, few errors of grammar, punctuation and spelling.</p>				
<p>Clear and detailed description of the workers from economically developing countries who are employed to make fast fashion clothing with detailed explanation related to the impact on their lives. Clear evidence of reasoning.</p>				
<p>QWC is excellent, presenting wholly appropriate material in a coherent and logical manner, hardly any errors of grammar, punctuation and spelling.</p>				
				0
				1-2
				3-4
				5

(c)	Upcycling garments as shown below, is one way of reducing fabric waste and extending the life of fashion and textile products. In the space below, draw an annotated sketch for a different idea for upcycling a man's shirt.		✓	4
<p><i>Answers that indicate an understanding of upcycling the shirt should be awarded up to 4 marks based on:</i></p> <ul style="list-style-type: none"> • A potentially useful product has been presented. • The new product would extend the life of the original product. • The idea clearly shows evidence of the principles of upcycling including the reuse of key style details from the original garment ie. the man's shirt. <p>Guidance to markers</p> <p><i>Incorrect/no answer</i></p> <p>A weak idea that barely reflects the concept of upcycling. May not function as a new product.</p> <p>A simple idea that reflects the concept of upcycling. The new product could function as a new product.</p> <p>A good idea that reflects the concept of upcycling. Evidence of key style details from the original garment are clear. The new product would function as intended.</p> <p>A creative idea that clearly reflects the concept of upcycling. Evidence of style details from the original garment are used effectively. The new product would fully function as intended.</p> <p>NOTE:</p> <ul style="list-style-type: none"> • <i>Marks can only be awarded for an alternative dress design, provided the style is radically different from the one pictured. Apportion marks accordingly.</i> • <i>The upcycled idea does not have to be clothing but evidence of existing style details must be included.</i> 				0 1 2 3 4
Total			20	

Question 5

The product below is an environmentally-friendly hemp beach bag with an organic cotton lining.		AO3	AO4	Mark
(a) (i)	Explain why hemp is a suitable material for the beach bag.		✓	2
	<p><i>Answers that indicate an understanding of the properties of hemp should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • Has a high tensile strength; 3 times stronger than cotton • Stronger and more durable than other fibres • Good abrasion resistance • Biodegradable • Resistant to mold, mildew and rot • Less prone to fading so will keep colour longer <p>Guidance to markers</p> <p><i>Incorrect/no answer</i></p> <p><i>Brief explanation but with little understanding for example:</i> It has good abrasion resistance.</p> <p><i>An explanation with clear understanding for example:</i> The bag will last longer as it has good abrasion resistance so it will withstand wear and tear.</p>			0
				1
				2
(ii)	Explain why lining the bag improves its functionality.		✓	2
	<p><i>Answers that indicate an understanding of the use of a lining should be awarded up to 2 marks each based on:</i></p> <ul style="list-style-type: none"> • A lining adds strength to the product – extra layer of fabric • Linings conceal the inner seam allowances and prevent them from wearing/breaking • A lining might make it easier to put items in and remove them from the bag • Hemp as it appears on this bag could be slightly rough, a cotton lining makes the inside of the bag smoother. <p>Guidance to markers</p> <p><i>Incorrect/no answer</i></p> <p><i>Brief explanation but with little understanding for example:</i> A lining adds strength to the bag.</p> <p><i>An explanation with clear understanding for example:</i> The lining will add an extra layer of fabric and strength to the bag so that it could hold a heavier load.</p>			0
				1
				2



(iii)	Explain how anthropometric data would have been used in the design of the beach bag.		✓	2
<p><i>Answers that indicate an understanding of anthropometrics should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • Measurements would have been from products most likely to be carried in the bag, to help judge the best overall size for the bag to meet the needs of users. • The length of the handles would be determined by an average height for the users – so when carried by hand does not reach the floor • Handle width based on hand sizes – what will feel more comfortable when carrying the bag fully loaded <p>Guidance to markers</p> <p><i>Incorrect/no answer</i> 0</p> <p><i>Brief explanation but with little understanding for example:</i> The overall size of the bag would be based on the size of product most likely to be carried in it. 1</p> <p><i>An explanation with clear understanding for example:</i> The overall size of the bag would be based on the average size of a few products most likely to be carried in it and the handle length based on the average height of users so that it does not reach the ground. 2</p>				
(b)	<p>Appliqué has been used to apply the flower design to the front of the bag.</p> <p>Using notes and sketches, describe the process of appliqué in stages that could be followed to apply the design to the beach bag.</p>		✓	4
<p><i>Answers that indicate an understanding of the stages of appliqué should be awarded up to 4 marks each based on:</i></p> <ul style="list-style-type: none"> • Appliqué is the process of applying a shaped piece of fabric to a base piece of fabric. <ol style="list-style-type: none"> 1. Apply (iron) bondaweb to the wrong side of the material being applied to the base fabric. 2. Cut out the design from the material with the applied bondaweb. 3. Peel off the backing paper from bondaweb and place on base material. Iron it to fix it in place. 4. Stitch it to permanently secure it in place. <p><i>Alternative methods include:</i></p> <ul style="list-style-type: none"> • Using a laser cutter to cut the desired shaped piece; • Use of interfacing, stitching the shape in place first, cutting away excess fabric, then over stitching the sides of the new shape to permanently secure it in place. <p>Guidance to markers</p> <p><i>Incorrect/no answer</i> 0</p> <p><i>The method might work lacks important detail.</i> 1</p> <p><i>A workable method, some understanding.</i> 2</p> <p><i>An appropriate method, clear understanding.</i> 3</p> <p><i>A highly appropriate sequence with clear evidence of understanding.</i> 4</p>				

(c)	Analyse how the materials used to make the beach bag allow it to be labelled as environmentally-friendly.	✓		5
<p><i>Answers that indicate an understanding of the environmentally-friendly nature of the materials and where answers are supported with <u>logical lines of reasoning</u> should be awarded up to 5 marks based on:</i></p> <ul style="list-style-type: none"> • Hemp and cotton are sustainable • Hemp and cotton are biodegradable • Hemp grows quickly without the need for herbicides or pesticides to increase yields • The cotton is labelled as organic; it has been grown without the use of chemicals to boost the growth of the crop. <p>Guidance to markers</p> <p><i>Incorrect/no answer</i></p> <p>Brief description of one or two properties of hemp and/or cotton. Some reference to sustainability or both fibres being biodegradable. Little or no evidence of reasoning.</p> <p>More detailed description of the environmentally-friendly properties of hemp and cotton, more relevant references to sustainability. Some evidence of reasoning.</p> <p>Clear and detailed description of the environmentally-friendly properties of hemp and organic cotton and detailed understanding of sustainability and the biodegradable nature of both fibres. Clear evidence of reasoning.</p>				
<i>Incorrect/no answer</i>				0
Brief description of one or two properties of hemp and/or cotton. Some reference to sustainability or both fibres being biodegradable. Little or no evidence of reasoning.				1-2
More detailed description of the environmentally-friendly properties of hemp and cotton, more relevant references to sustainability. Some evidence of reasoning.				3-4
Clear and detailed description of the environmentally-friendly properties of hemp and organic cotton and detailed understanding of sustainability and the biodegradable nature of both fibres. Clear evidence of reasoning.				5

(d)	The beach bag is intended for users who are environmentally responsible. Evaluate the marketability of the beach bag in meeting the needs, wants and values of the intended users.	✓		5
<p><i>Answers that indicate an understanding of the marketability of the beach bag and show <u>evidence of appraisal</u> should be awarded up to 5 marks based on:</i></p> <ul style="list-style-type: none"> • Understanding of marketability – the product should appeal to intended users • Attractiveness of the product to potential users • Does the product fulfil the users’ needs, wants and values? • Aesthetics – flower design, appeals to those who are environmentally responsible • Flower is a natural form / the design is intended for beach goers / holidaymakers • It is marketed as an environmentally-friendly product based on the materials used so should meets the desires of the targeted users who may only buy sustainable products • Suitable for carrying items to the beach repeatedly (without breaking or being disposed of quickly) <p><i>Note: responses must reflect an <u>understanding of the marketability</u> of the product.</i></p> <p>Guidance to markers</p> <p><i>Incorrect/no answer</i></p> <p>Brief description of the marketability of the beach bag but little detail in the explanation. Little evidence of appraisal or judgement.</p> <p>More detailed description of marketability with some understanding of the environmentally-friendly nature of the materials used. Some evidence of appraisal and/or making a judgement.</p> <p>Clear and detailed description of the marketability of the beach bag in meeting the needs and wants of users. Detailed and clear understanding shown regarding the environmentally-friendly nature of the materials used. Clear evidence of appraisal and/or judgements.</p>				
Total				20

Question 6

Fashion and textile products use a variety of different processes and machinery in order to construct them.		AO3	AO4	Mark
(a) (i)	The neckline of the summer top pictured below has been finished using a facing. Explain why a facing is the most suitable method of finishing the edge of this neckline.		✓	3
	<p><i>Answers that indicate an understanding of facings should be awarded up to 3 marks based on:</i></p> <ul style="list-style-type: none"> • Difficult to finish this shape neatly any other way • The facing conceals the raw edges of the neckline as they will be well hidden under inside the fold of the facing • When facing is turned inside the seam allowance can be clipped to achieve the neat square shape • Use of lining would work and achieve a neat finish, but a lining would not be suitable in this instance ie a summer top <p>Guidance to markers</p> <p><i>Incorrect / no answer</i></p> <p><i>Brief description but with little understanding for example :</i> Use of a facing allows for a neater finish to the neckline.</p> <p><i>A simple explanation with some understanding for example:</i> A neater finish and a good shape are achievable through the use of a facing.</p> <p><i>A more detailed explanation with clear understanding for example:</i> A neater finish and a good shape are achievable through the use of a facing. It also conceals all raw edges neatly under the folds of the fabric.</p>			0 1 2 3
(ii)	Give one detailed reason why interfacing would have been used on the facing when constructing the summer top.		✓	2
	<p><i>Answers that indicate an understanding of the use of interfacing in this context can be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • The interfacing is needed to prevent stretching and sagging of the neckline. • The interfacing gives a firmness and structure to the fabric of the main garment. • It is less able to distort when being stitched <p>Guidance to markers</p> <p><i>Incorrect / no answer</i></p> <p><i>Brief description but with little understanding for example:</i> The interfacing stabilises the fabric and helps to keep its shape.</p> <p><i>A detailed reason with clear understanding for example:</i> The interfacing stabilises the fabric and helps to keep the square shape whilst the neckline is being stitched and when it is being worn.</p>			0 1 2

(iii)	The edge of the sleeve has been gathered into a cuff. Using notes and sketches, explain how to gather the edge of the fabric before attaching it to the cuff.		✓	4
<p><i>Answers that indicate an understanding of forming gathers should be awarded up to 4 marks based on the following method:</i></p> <ul style="list-style-type: none"> • Stitch two parallel rows of straight stitches along the edge to be gathered • Stitches should be slightly longer than a normal length stitch; the tension could also be loosened slightly • Leave long ends of thread at each end of each row of stitching • Take up two thread ends from one side of the fabric and gently pull the threads to ruffle up the fabric • Spread the ruffles evenly to create the gathered effect <p>Guidance to markers</p> <p><i>Incorrect/no answer</i> 0</p> <p><i>The method might work but lacks detail.</i> 1</p> <p><i>A workable method, some understanding.</i> 2</p> <p><i>A suitable method with understanding</i> 3</p> <p><i>A highly appropriate method, clear and detailed understanding.</i> 4</p> <p><u>Note:</u> the response should only focus on the process of 'gathering' fabric.</p>				
(iv)	Pattern markings were followed when cutting out the summer top. Explain the meaning of the pattern marks when found on the named pattern templates and why each must be followed.		✓	4
<p><i>Answers that indicate an understanding of the pattern markings should be awarded up to 2 marks each based on:</i></p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;">  </div> <ul style="list-style-type: none"> • This pattern mark means place the edge of the template where this symbol is found on a folded edge of the fabric. • The resultant piece of fabric when the template is removed will be one piece each side mirroring the other. • Failure to follow this rule will mean the end piece will be in two separate pieces. <div style="margin-right: 20px;">  </div> <ul style="list-style-type: none"> • This pattern mark means place template parallel to the selvedge edge of the fabric in the same direction, where the warp yarns lie • Failure to follow this may mean your garment won't drape correctly or the shape is distorted slightly <p>Guidance to marker</p> <p><i>Incorrect/no answer</i> 0</p> <p><i>A limited explanation lacks detail for example:</i> The pattern mark means place on a folded edge. 1</p> <p><i>A clear explanation with understanding for example:</i> The pattern mark means place on a folded edge, so the cut piece needs to be a symmetrical one-piece shape. 2</p> </div>				

(v)	Explain the purpose of a dart when used on a summer top like one pictured.		✓	2
<p><i>Answers that indicate an understanding of the function of a dart should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • A dart gives shape to fabric as a triangular piece of fabric is pinched out of the fabric • Darts reduce the amount of fabric in a given area • Darts allow flat fabric to be manipulated to form 3 dimensional garments that fit the curves on a body <p>Guidance to marker</p> <p><i>Incorrect/no answer</i> 0</p> <p><i>A limited response, lacks detail for example:</i> Darts allow flat fabric to fit a body. 1</p> <p><i>A more detailed response for example:</i> Darts are created by pinching out small pieces of fabric to allow the top to fit over the bust and follow the curves of a body. It allows for a better fit. 2</p>				
(b)(i)	The summer top is made from a linen fabric. Describe the properties of linen that make it suitable for the summer top.		✓	3
<p><i>Answers that indicate an understanding of the properties of linen for the summer top should be awarded up to 3 marks based on:</i></p> <ul style="list-style-type: none"> • Linen is absorbent making it cool to wear • It is naturally breathable as it conducts heat away from the body • It is non-static, so will not cling to the body • Strong and quite hardwearing <p>Guidance to markers</p> <p><i>Incorrect/no answer</i> 0</p> <p><i>A limited response, lacks detail for example:</i> It is absorbent. 1</p> <p><i>A more detailed response for example:</i> As it is absorbent it will soak up perspiration and keep the wearer cool. 2</p> <p><i>A full and detailed response with understanding for example:</i> As it is absorbent it will soak up perspiration and conduct heat away from the body. This helps keep the wearer cool in warm weather. 3</p>				
(ii)	Describe one disadvantage of using linen for the summer top.		✓	1
<p><i>Answers that demonstrate an understanding of the disadvantages of linen should be awarded 1 mark based on:</i></p> <ul style="list-style-type: none"> • It is non-elastic therefore it creases badly. • Prone to damage by mildew and perspiration <p>Guidance to markers</p> <p><i>Incorrect/no answer</i> 0</p> <p><i>A simple explanation with understanding for example:</i> It creases quite badly when worn as it is non-elastic. 1</p>				

(c) (i)	In industry an overlocker would be used in the construction of the summer top. Explain what the overlocker would be used for and why.		✓	3
<i>Answers that demonstrate an understanding of the use of an overlocker in an industrial setting should be awarded up to 3 marks based on:</i>				
Overlockers are used to:				
<ul style="list-style-type: none"> • Overlockers are predominantly used to join two fabrics together in industry but can be used to neaten edges • A blade on the machine near the needle cuts the edge of the fabric in a neat straight edge • Overlockers neaten the raw edges of fabric as threads loop over the edges of the fabric as it is being sewn • Overlockers prevents the raw edges of seam allowances from fraying • Overlockers add strength to seams • It is cost effective and fast to use overlockers to join seams on an industrial scale 				
Guidance to markers				
<i>Incorrect/no answer:</i>				
0				
<i>A limited response, lacks detail for example:</i>				
Overlockers are used to join two fabrics together to make a seam.				
1				
<i>A more detailed response for example:</i>				
Overlockers would be used on the top to join fabric pieces together and neaten them in one operation on all the seams.				
2				
<i>A full and detailed response with understanding for example:</i>				
An overlocker would be used on the top to join corresponding pieces together and neaten all seams in single operations. It is an efficient and cost effective way to manufacture the top on an industrial scale.				
3				

(ii)	Justify the use of batch production to manufacture the summer top.		✓	3
<p><i>Answers that indicate an understanding of batch production for the summer top should be awarded up to 3 marks based on:</i></p> <ul style="list-style-type: none"> • Batch production refers to a set number of products in a given time frame – not huge quantities • As it is a fashion item it is highly unlikely huge quantities will be needed as it may only appeal to a set number of users • It is a summer top therefore only needed for part of the year when the weather is suitable so huge quantities are unlikely to sell over extended periods of time • Fashions change quite frequently so it may only appeal for a certain period of time – reduces quantity needed • The style may only suit a limited number of people therefore huge quantities would not be viable <p>Guidance to markers</p> <p><i>Incorrect/no answer:</i> 0</p> <p><i>A limited response, little understanding for example:</i> Only a limited number of tops will be needed as it will only be worn during the summer months. 1</p> <p><i>A more detailed response, some understanding for example:</i> Batch production sets limits on the quantities produced. In this case the top is for summer use only therefore not needed all year round. 2</p> <p><i>A detailed response with clear understanding for example:</i> As the top will only be useful for a limited period of time – the summer months, this will reduce the numbers needed as it won't sell beyond the summer therefore batch is the most likely scale of production. 3</p>				
Total				25