



GCSE MARKING SCHEME

SUMMER 2019

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

INTRODUCTION

This marking scheme was used by WJEC for the 2019 examination. It was finalised after detailed discussion at examiners' conferences by all the examiners involved in the assessment. The conference was held shortly after the paper was taken so that reference could be made to the full range of candidates' responses, with photocopied scripts forming the basis of discussion. The aim of the conference was to ensure that the marking scheme was interpreted and applied in the same way by all examiners.

It is hoped that this information will be of assistance to centres but it is recognised at the same time that, without the benefit of participation in the examiners' conference, teachers may have different views on certain matters of detail or interpretation.

WJEC regrets that it cannot enter into any discussion or correspondence about this marking scheme.

GCSE DESIGN AND TECHNOLOGY

FASHION & TEXTILES - UNIT 1

SUMMER 2019 MARK SCHEME

Question 1		AO3	AO4	Mark
(a)	Explain how the choice of materials used to make the hand-made toy address some of the environmental concerns of consumers.		✓	2
	<p><i>Answers that indicate an understanding of environmental issues should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • Cotton is sustainable. • Kapok is sustainable from a plant source (tree). • Both fibres decompose on disposal/are biodegradable. • Both materials can be recycled/ reused. • Hand woven cotton in Sri Lanka – no heavy industry/pollution. <p>Guidance to markers</p> <p><i>Incorrect / no answer</i></p> <p><i>Brief description for example:</i> Cotton is from a plant and is sustainable</p> <p><i>A more detailed explanation for example:</i> As both cotton and kapok are plant based they are from a sustainable source that will grow back.</p>			0
				1
(b)	Explain how recycling materials could improve the environmental impact of the toy.		✓	3
	<p><i>Answers that indicate an understanding of recycling should be awarded up to 3 marks based on:</i></p> <ul style="list-style-type: none"> • The filling could be taken from products no longer wanted or needed. • Different materials with different textures could be taken from unwanted products and could add further texture to the product. • The main fabric could be a material that has already been reprocessed. • Recycling material reduces the amount heading for landfill. • Less demand on new materials – taken from source, even if they are sustainable. <p>Guidance to markers</p> <p><i>Incorrect/no answer</i></p> <p><i>Brief description, very little understanding:</i> Recycling lessens the amount of material heading for landfill.</p> <p><i>Some detail with some understanding of recycling for example:</i> Recycling materials into new products reduces the materials going to landfill.</p> <p><i>A detailed explanation with clear understanding of recycling for example:</i> Recycling materials into new products reduces the amount of materials going to landfill and also reduces the demand on the source of new materials.</p>			0
				1
				2
				3

(c)	Place a tick in the box next to the correct Fair Trade Mark.		✓	1
(i)	Guidance to markers <i>Incorrect/no answer</i> Only one acceptable answer: Logo 2 - Blue/ green/black logo			0 1
(ii)	Explain how the Fair Trade Foundation supports workers in developing countries.		✓	4
	<i>Answers that indicate an understanding of the Fair Trade Foundation should be awarded up to 4 marks based on:</i> <ul style="list-style-type: none"> • <u>Mission statement</u>: “Our mission is to connect disadvantaged producers and consumers, promote fairer trading conditions and empower producers to combat poverty, strengthen their position and take more control over their lives.” • Fair Trade Foundation – non-profit making - seeks to ensure greater equity in international trade. • Labelling indicates this standard has been applied. • Workers receive a fair wage for the products they produce, are not exploited/ protection of worker’s rights. • Working conditions are supervised and are of an acceptable standard. • Workers are given appropriate training. • Promotes investment in business and community projects. • They independently check that standards have been met by the farmers, workers and companies that are part of products’ supply chains. • Fairtrade lobbies government for fair deals to support workers in developing countries. • Promotes awareness with the public to choose fair trade products which brings additional benefits. 			
	Guidance to markers <i>Incorrect/no answer</i>			0
	<i>Brief description, very little understanding for example:</i> It ensures workers are given a fair wage for the work they do.			1
	<i>Some detail with some understanding of Fair Trade for example:</i> It ensures workers are given a fair wage for the work they do and their working conditions are supervised and safe.			2
	<i>A more detailed explanation with clear understanding of Fair Trade for example:</i> It ensures workers are given a fair wage for the work they do and their working conditions are supervised and safe. Worker’s rights are protected and they are not exploited.			3
	<i>Fully detailed explanation with clear understanding of Fair Trade for example:</i> It ensures workers are given a fair wage for the work they do and their working conditions are supervised, safe and they have received the necessary training for the work they do. Worker’s rights are protected and they are not exploited in any way.			4
			Total	10

Question 2		AO3	AO4	Mark
(a) (i)	Solar power is one form of renewable energy. State what is meant by the term renewable energy.		✓	1
	<p><i>Answers that indicate an understanding of renewable energy should be awarded 1 mark based on:</i></p> <ul style="list-style-type: none"> • Energy from a source that is not depleted when used, such as wind or solar power <p>Guidance to markers</p> <p><i>Incorrect / no answer</i></p> <p><i>A description with understanding:</i> The source of power will keep going – it won't run out.</p>			1 2
(ii)	Explain how the solar panel on the beach bag works.		✓	3
	<p><i>Answers that indicate an understanding of how the solar panel works should be awarded up to 3 marks based on:</i></p> <ul style="list-style-type: none"> • Solar panels comprise many, smaller units called photovoltaic cells. • Power in the form of heat is taken from the sun. • Photovoltaic means they convert sunlight into electricity/power. • The power generated is used to charge phones etc. <p>Guidance to markers</p> <p><i>Incorrect/no answer.</i></p> <p><i>Brief description, very little detail for example:</i> The sun provides the source of power.</p> <p><i>Some detail with some understanding of solar power for example:</i> Cells in the solar panel convert heat from sunlight into energy.</p> <p><i>A detailed explanation with clear understanding of solar power for example:</i> Photovoltaic cells in the solar panel convert sunlight into energy which is then used to charge mobile devices.</p>			0 1 2 3
(iii)	Describe in detail one detailed disadvantage to the user of the beach bag relying on solar power.		✓	2
	<p><i>Answers that indicate an understanding of the disadvantages of solar power should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • If it's a cloudy or overcast day the source of energy will be greatly reduced. • Once the energy stored (in the battery of the gadget) has been used it will not recharge until the source improves. • Could run out of battery for any devices – inconvenient. <p>Guidance to markers</p> <p><i>Incorrect / no answer</i></p> <p><i>Brief description for example:</i> No energy source without the sun.</p> <p><i>A more detailed explanation with understanding for example:</i> If the sun isn't shining there is no source of energy and you may not be able to charge any gadgets.</p>			0 1 2

(b)	Explain how technology-push has influenced the development of the solar beach bag.		✓	4
<p><i>Answers that indicate an understanding of technology-push should be awarded up to 4 marks based on:</i></p> <ul style="list-style-type: none"> • Solar cells have evolved to be light and thin enough to be nearly weightless when mounted on a beach bag. • Latest technology allows for the solar panels to be flexible to be mounted/integrated onto compliant textile materials. • Consumers these days use many forms of entertainment, voice and data communication and health monitoring etc, all of which rely on wireless protocols and services. • Portable electronic devices like mobile phones, mp3 players, cameras or notebook computers need a sustainable energy supply in order to overcome the constant problem of batteries running out of power when needed as in a day at the beach. • Some clothing/textile-integrated photovoltaic systems can power an mp3 player, and after three hours under full sun provides more than 40 hours of music without any additional illumination – technology sufficiently developed. • Efficiency of the solar panels and battery development has improved. • Manufacturers see opportunities to capitalise on the new technology and re-purpose existing products – technology-push. • If parts of the system need to be visible, they should be attractive and integrate well with the particular design of the product – panel on the bag is visible but does not detract from the style of the bag- it becomes a feature. • Connecting wires, charge controllers, and batteries are invisible, lightweight, and maintenance free. • An additional requirement, products with integrated electronics and photovoltaics should be as washable/ still function after contact with water (at the beach) as every other textile – technology push. <p>Guidance to markers</p> <p><i>Incorrect/no answer</i> 0</p> <p><i>Brief description, very little detail for example:</i> Latest developments in new technology allow it to be included on textile products. 1</p> <p><i>Some detail with some understanding of technology-push for example:</i> Latest developments in new technology related to solar power is getting much smaller and lighter which allow it to be included on textile products. 2</p> <p><i>A more detailed explanation with clear understanding of technology-push for example:</i> As the latest developments in new technology related to solar power is getting much smaller and more lightweight, it is also possible to make it flexible which allows it to be integrated on woven textile products like the beach bag. 3</p> <p><i>Fully detailed explanation with clear understanding of technology-push for example:</i> As the latest developments in new technology related to solar power is getting much smaller and more lightweight, it is also possible to make it flexible which allows it to be integrated in woven textile products. The available technology drive manufacturers to repurpose existing products like the beach bag. 4</p>				
			Total	10

Question 3		AO3	AO4	Mark
(a)	Describe the difference in the process of printing a material compared to dyeing a material.		✓	2
	<p><i>Answers that indicate an understanding of a non-stitched method should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • The print design is applied to the top of the material in the required pattern - surface decoration. • Dyed material has been completely submerged in a dye bath and the dyes soaks through the individual yarns colouring the material on both sides. <p>Guidance to markers</p> <p><i>Incorrect / no answer.</i></p> <p><i>Brief description, lacks detail for example:</i> The print lies on the surface only.</p> <p><i>More detailed description with understanding for example:</i> The print lies on the surface only but the dye colours through all the material.</p>			<p>0</p> <p>1</p> <p>2</p>

(b)	Explain why Orla Kiely would find using CAD a more effective method of developing her particular style of design.		✓	6
<p><i>Answers that indicate an understanding of CAD used to develop Kiely's designs should be awarded up to 6 marks based on:</i></p> <p>NB. Her style is very 60's inspired – simple, stylised, bold shapes and colours – this should be reflected in the answer</p> <ul style="list-style-type: none"> • As her work consists of repeat pattern shapes it would be much easier to complete and develop the repetitions using CAD. • Imagery can be manipulated more easily into the required stylised shapes – edit, cut, copy and paste, rotate, resize, etc. • She uses lots of colourways – experimental work in developing colourways can be done easily by a simple command. • Orla Kiely is never quite satisfied with her ideas and constantly changes small parts – tweaks designs – much more easily achieved using CAD rather than redraw/paint from start. She believes it is never too late to alter or modify a design, CAD facilitates this more effectively. • Her work consists of many co-ordinated ranges – easier to develop new ideas using CAD. <p>Guidance to markers</p> <p><i>Incorrect/no answer.</i> 0</p> <p>Basic understanding of CAD; may include a basic reference to Orla Kiely's work but little detail overall. 1-2</p> <p>More detailed understanding of CAD; includes reference to Orla Kiely's style of work. 3-4</p> <p>Clear and detailed understanding of CAD; clear explanation relating to how CAD supports the work of Orla Kiely; clear knowledge relating to her specific style of work. 5-6</p> <p>NB. For full marks candidate must show knowledge of CAD <u>and</u> Orla Kiely's style. If only one aspect of the above is covered award a maximum of 4 marks.</p> <p><i>Simple unqualified assertions (quicker, faster etc.) relating to CAD gain no marks.</i></p>				
(c)(i)	Place a tick (✓) in each box to show which statements are true or false.		✓	3
<p>Guidance to markers</p> <p><i>Incorrect/no answer</i> 0</p> <p><i>Only acceptable answers in this order:</i></p> <p>TRUE 1</p> <p>FALSE 1</p> <p>TRUE 1</p>				

(c) (ii)	If the zip on the train case developed a fault and broke shortly after purchase, explain how the law would protect the consumer's rights.		✓	4
<p><i>Answers that indicate an understanding of consumer rights should be awarded up to 4 marks based on:</i></p> <ul style="list-style-type: none"> • The Consumer Rights Act 2015 states that all goods bought or sold in the UK are: <ul style="list-style-type: none"> ➤ As described – the goods should match any sample you were shown. ➤ Be of satisfactory quality – any defect should have been made clear to you when you purchased the item. ➤ Fit for purpose – you should be able to use the product for its everyday purpose, as agreed by the seller. ➤ If the product does not meet any one of these the retailer is in breach of the contract under the Consumer Rights Act. • Consumers have the right to get faulty products replaced or repaired if it's too late to reject them (outside 30 days). • The seller can normally choose which option is the cheapest although consumers can request their preferred option. • If the seller does not do the above, consumers can request a reduction in price or money back. • If a repair or replacement is not possible you have the right to a refund up to 100% of the price you paid, or to reject the goods for a full refund. <p>Guidance to markers</p> <p><i>Incorrect/no answer.</i> 0</p> <p><i>Brief description, very little detail for example:</i> 1 You can ask for a replacement if it's within a month of buying it.</p> <p><i>Some detail with some understanding of consumer rights for example:</i> 2 You can ask for a replacement or your money back if it's within a month of buying it.</p> <p><i>A more detailed explanation with clear understanding of consumer rights for example:</i> 3 If it's less than a month since you bought it, you can ask for a replacement or your money back otherwise the seller should offer to repair the faulty zip - longer than a month since you bought it.</p> <p><i>Fully detailed explanation with very clear understanding of consumer rights for example:</i> 4 If it's less than a month since you bought it, you can ask for a replacement or your money back. The seller should offer to repair the faulty zip if it's longer than a month because it is not considered fit for everyday use as agreed by the seller when it was purchased.</p>				
		Total	15	

Question 4				
The success of the fashion and textiles product depends on the careful selection of materials used to manufacture the product.		AO3	AO4	Mark
(a) (i)	Explain why the named material is the most suitable choice for each of the products pictured.		✓	4
	<p><i>Answers that indicate an understanding of the properties of cotton in relation to the sleep suit should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • Cotton is absorbent – soaks up any moisture - spillages • Easy care – fully washable – baby clothes need constant washing <p>Guidance to markers</p> <p><i>Incorrect / no answer.</i></p> <p><i>Brief description, lacks detail for example:</i> Cotton is absorbent.</p> <p><i>More detailed description with understanding for example:</i> Cotton is absorbent and will soak up moisture keeping baby comfortable.</p>			0 1 2
	<p><i>Answers that indicate an understanding of the properties of jute in relation to the bag should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • Re-useable shopping bag made from a sustainable source. • Eco-friendly product, jute is eco-friendly too • Bio-degradable if it goes to landfill • Very strong and hardwearing fibre – high tenacity <p>Guidance to markers</p> <p><i>Incorrect / no answer.</i></p> <p><i>Brief description, lacks detail for example:</i> It's a strong hardwearing material.</p> <p><i>More detailed description with understanding for example:</i> As it's for a bag it will need to be strong and hardwearing to with stand the use it will get as a re-useable shopping bag.</p>			0 1 2

(ii)	Explain why the construction method used to make the material for each of the products pictured above is the most suitable.		✓	4
<p><i>Answers that indicate an understanding of the characteristics of knitting in relation to the sleep suit should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • Knitted fabrics are more comfortable to wear – softer next to skin. • Knitted fabrics have stretch characteristic adding to comfort. • Knitted fabrics are warmer to wear as air is trapped in air pockets created by loops in knitting keeping body warmer. <p>Guidance to markers</p> <p><i>Incorrect / no answer.</i></p> <p><i>Brief description, lacks detail for example:</i> Knitted fabrics can stretch around the body adding to comfort.</p> <p><i>More detailed description with understanding for example:</i> As knitted fabrics stretch to fit around the body, they are less restrictive and more comfortable to wear.</p>				
<p><i>Answers that indicate an understanding of the characteristics of weaving in relation to the bag should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • Woven materials have more stability. • They retain shape and don't distort easily. • They give structure to products. • If cut they won't fray and fall apart – making materials more durable. <p>Guidance to markers</p> <p><i>Incorrect / no answer</i></p> <p><i>Brief description, lacks detail for example:</i> Woven materials keep their shape.</p> <p><i>More detailed description with understanding for example:</i> Woven materials are stronger and keep shape ideal for the shopping bag.</p>				

(b)	Anthropometric data would have been used to help develop the sleep suit and shopping bag. Explain why primary research would be used to gather this information.		✓	2
<p><i>Answers that indicate an understanding of primary research should be awarded up to 2 marks based on:</i></p> <p>Anthropometrics is about sizes and dimension in relation to products.</p> <ul style="list-style-type: none"> • This data needs to be collected first hand to ensure accuracy of the information. • Primary research would gather very specific measurements that the designer would need to develop the products. • Unreliable to use secondary sources of information. <p>Guidance to markers</p> <p><i>Incorrect/no answer.</i> 0</p> <p><i>Brief description, very little detail for example:</i> Primary research is about finding out the anthropometric data you need yourself/first hand. 1</p> <p><i>Some detail with understanding of primary research for example:</i> Primary research is about finding out the anthropometric data you need yourself which is far more reliable than using someone else's information. 2</p>				

(c)	The sleep suit is available in a range of sizes whilst the shopping bag is one size. Analyse the use of anthropometrics in developing both products.	✓		10
<p><i>Answers that indicate an understanding of anthropometrics and where answers are supported with <u>logical lines of reasoning</u> should be awarded up to 10 marks based on:</i></p> <ul style="list-style-type: none"> • Knowledge and understanding that anthropometrics is based on average human measurements to give standard sizes. • It allows designers to develop products that fit as intended and allow for the products to be used/ worn comfortably and are fit for purpose. <p><u>Sleep suit:</u></p> <ul style="list-style-type: none"> • Average height of babies from birth to 2/3 years approx. • Allows for the development of shorter/taller than average babies compared to ages in months/years • Specific sizes: neck, wrist, ankle circumferences, torso/body circumference and length, arm lengths, leg lengths, feet sizes. • Depth of armholes need to be considered so that arms can move freely without restriction. • Sizes need to consider movement of babies in sleep and awake – movement without restriction. • Measurements also need to consider the nappy the baby will be wearing. <p><u>Shopping bag:</u></p> <ul style="list-style-type: none"> • Hand sizes to develop the size and shape of the handle. • Average height of people to determine average length of bag – people need to carry the bag above floor/ground level. • Main body of bag size in relation to size of potential products to be carried. <p>NB: Candidates need to show understanding of the specific issues relating to both products.</p> <p><i>Each anthropometric point identified should be fully explained in terms of user/comfort/fitness for purpose.</i></p> <p><i>Candidates may refer more to the sleepsuit than the bag but both products need to be considered for full marks.</i></p>				

Guidance to markers		
No answer or no relevant issues described or discussed.		0
Simple understanding of anthropometrics. Little, if any, understanding of the application of relevant data in one product. Quality of Written Communication is limited, presenting material with limited coherence, many errors of grammar, punctuation and spelling.		1-2
Some description of anthropometrics. Little understanding of the application of relevant data to the products, may apply some knowledge to one product. Quality of Written Communication is basic, presenting occasionally appropriate material with some coherence, some errors of grammar, punctuation and spelling.		3-4
Description and understanding of anthropometrics. Some understanding of the application of relevant data to the products, may apply more knowledge both product. Quality of Written Communication is good, presenting mainly appropriate material in a coherent manner, few errors of grammar, punctuation and spelling.		5-7
Clear and detailed understanding and description of anthropometrics. Clear and detailed understanding of the application of relevant data to the products, detailed knowledge applied both products. Quality of Written Communication is excellent, presenting wholly appropriate material in a coherent and logical manner, hardly any errors of grammar, punctuation and spelling.		8-10
		Total
		20

Question 5				
The girl pictured below is wearing a Bardot top, a very popular style from a ready to wear collection for one summer season.		AO3	AO4	Mark
(a)	Place a tick (✓) in the box below to indicate the most suitable scale of production for the seasonal top.		✓	1
(i)	<p>Guidance to markers</p> <p><i>Incorrect/no answer</i></p> <p><i>Only one acceptable answer: BATCH production</i></p>			0 1
(ii)	Describe one advantage and one disadvantage to the consumer of buying popular ready to wear fashionable clothing like the Bardot top shown above.		✓	4
	<p>ADVANTAGES</p> <p><i>Answers that indicate an understanding of the advantages of popular clothing should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • Readily available in a range of sizes – possible to find one that fits you. • Latest styles available – on trend. • Fashion statement – being up to date with latest looks and style – good for self-esteem. • Affordable fashion. <p>Guidance to markers</p> <p><i>Incorrect/no answer.</i></p> <p><i>Brief description for example:</i> Easy to purchase a style that is on trend.</p> <p><i>Some detail in explanation for example:</i> The latest trends are readily available in store ensuring you can easily keep up to date and wear the latest looks.</p> <p>DISADVANTAGES</p> <p><i>Answers that indicate an understanding of the disadvantages of popular clothing should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • Popular clothes in latest styles may sell out fast – you miss out. • Lots more people wearing same top as you – no individuality. • Not a bespoke fit, style may not suit some body shapes. <p>Guidance to markers</p> <p><i>Incorrect/no answer.</i></p> <p><i>Brief description for example:</i> Everyone wearing the same thing.</p> <p><i>Some detail in explanation for example:</i> No individuality as loads of people could be wearing the same top as you.</p>			0 1 2 0 1 2

(b) (i)	Draw the symbol in the box below that represents the straight of grain instruction.		✓	1
	Guidance to markers <i>Incorrect/no answer.</i> <i>Only one acceptable answer:</i> 			0 1
(ii)	Explain how you would follow the straight of grain instruction when laying out templates on material.		✓	2
	<i>Answers that indicate an understanding of the straight grain should be awarded up to 2 marks based on:</i> <ul style="list-style-type: none"> • The grain on materials runs along the length following the warp yarns. • The grainline is parallel to the selvedge edge. • The double headed arrow on templates must follow the direction of warp threads and selvedge edge. 			
	Guidance to markers Incorrect/no answer <i>Brief description lacks detail for example:</i> The arrow on templates follows the warp yarns.			0 1
	<i>Some understanding of the straight of grain instruction for example:</i> The templates are laid out with the arrow symbol running parallel to the selvedge edge.			2
(iii)	The pattern on the material used to make the Bardot top has one-way directional print. Explain how this affects the way you cut out the material to make the top.		✓	2
	<i>Answers that indicate an understanding of one-way directional print should be awarded up to 2 marks based on:</i> <ul style="list-style-type: none"> • The pattern on the material goes in an obvious one direction – it is not an all over pattern that would not matter how its cut. • You cannot tessellate/turn pattern templates around in opposite directions to save material. • Patterns might need to be matched on a side seams – mismatching looks poor/affects quality and overall impression. • If templates are not cut in the same direction the patterns on separate parts of the top will be in opposite directions – impacts on aesthetics of finished product – looks odd! 			
	Guidance to markers Incorrect/no answer.			0
	<i>Brief description lacks detail for example:</i> All templates must be cut in same direction.			1
<i>Some understanding of a one-way directional print for example:</i> All templates must be laid out and cut in same direction so that the pattern on the top matches and is also going in the same direction.			2	

(c)	The Bardot top has been made from a polyester and cotton fibre blend. Evaluate the benefits to the wearer of using the blended material to make the summer top.	✓		5
<p><i>Answers that indicate an understanding of the blended material and show evidence of appraisal should be awarded up to 5 marks based on:</i></p> <ul style="list-style-type: none"> • Cotton: absorbent; comfortable to wear, reasonably strong, creases. • Polyester: durable, strong, good elasticity, crease resistant, easy care. • Combining the properties of both fibres makes a new material with its own unique properties. • It combines the best properties for a superior material which can mean improved performance properties; comfort during use; improved aftercare of fabric. • Can reduce the price of the material which can be passed on to the consumer. <p><i>Candidates will need to demonstrate knowledge of the <u>individual properties</u> of the <u>named fibres</u> to illustrate what the <u>specific improvements</u> would bring to the new blended fibre/material.</i></p> <p>Guidance to markers</p> <p><i>Incorrect/no answer.</i></p> <p>Brief description of the fibre/material blend but little detail in the improved qualities of the new material for the top. Little reference to the wearer. Little evidence of appraisal or judgement. 0</p> <p>More detailed description of the fibre/material blend, with some explanation and detail of the improved qualities of the new material for the top. Blends not fully explained. Some reference to the wearer. Some evidence of appraisal and/or making a judgement. 1-2</p> <p>Clear and detailed description of the fibre/material blend with detailed explanation of the improved qualities of the new material. Full explanation of the combined properties with clear reference to the wearer. Clear evidence of appraisal and/or judgements. 3-4</p> <p>Clear and detailed description of the fibre/material blend with detailed explanation of the improved qualities of the new material. Full explanation of the combined properties with clear reference to the wearer. Clear evidence of appraisal and/or judgements. 5</p>				

(d)	Elastic has been used to shape the Bardot top as shown below. Evaluate the use of elastic as a method of shaping the top outlining the benefits to the wearer.	✓		5
<i>Answers that indicate an understanding of elastication in clothing to provide shape and show <u>evidence of appraisal</u> should be awarded up to 5 marks based on:</i>				
<ul style="list-style-type: none"> • Elasticsation is a method used to draw in material to create fullness and allow clothing to fit the contours of the body. • The elastic is stretched and stitched over the area to be gathered when the elastic is released it draws in material and creates gathers. • This method is comfortable to wear as it is non-restrictive, won't dig in and will stretch as and when needed. • It creates soft gathers and easily allows for movement. • In a top like the Bardot top the wearer can place the neckline where it feels comfortable regardless of her shape and style – adaptable. • The cuffs will fit all widths of arm – comfortable. • Shirring elastic as in Bardot top is a design feature – stylish, functional and looks good. 				
Guidance to markers				
<i>Incorrect/no answer.</i>				
Brief description of elastication but little reference to its use in shaping clothing; little reference to the top or benefits to the wearer. Little or no evidence of appraisal or judgement.				
More detailed description of elastication with some reference to its use in shaping clothing; some reference to the top and benefits to the wearer. Some evidence of appraisal and/or judgement.				
Clear and detailed description of elastication with detailed reference to its use in shaping clothing – clear understanding. Detailed reference to the top and the benefits to the wearer. Clear evidence of appraisal and judgements.				
Total				20

Question 6		AO3	AO4	Mark
(a) (i)	Label the picture to show the correct machine stitch type and embellishment in the centre of the flowers which have been used on Cushion Cover A .		✓	2
	<p>Guidance to markers</p> <p><i>Incorrect / no answer</i></p> <p><i>Only acceptable answers in this order:</i></p> <p>Satin stitch (accept zig-zag)</p> <p>Beading</p>			<p>0</p> <p>1</p> <p>1</p>
(ii)	The little flowers on Cushion Cover A have been made on the laser cutter. Give three reasons for using the laser cutter to make the flowers.		✓	3
	<p><i>Answers that indicate an understanding of using a laser cutter to make the flowers can be awarded one mark for each reason based on:</i></p> <ul style="list-style-type: none"> • Uniform size and shape. • No frayed edges as they are sealed. • Intricate shape cannot be done by hand or other method. • Efficient and time saving to cut so many small parts. <p>Guidance to markers</p> <p><i>Incorrect/no answer.</i></p> <p><i>Relevant reason for example:</i></p> <p>When materials is cut on the laser cutter the edges on each of the flowers will not fray.</p>			<p>0</p> <p>1</p>

(iii)	Describe how to make a block and the process of block printing the flower.		✓	4
<i>Answers that indicate an understanding of the block printing should be awarded up to 4 marks based on:</i>				
<ul style="list-style-type: none"> • A flower shaped block could be created from a Styro foam block – candidate may refer to creating a block shape using laser cutter. Accept other methods that would enable a block shape to be made and credit any appropriate materials that would function in this process. • Fabric paint is applied to the face edge of the block – usually applied with a roller for a smooth application of the paint; accept painted on. • The block is pressed down firmly onto the material. • Remove the block and the flower is printed. 				
Guidance to markers				
<i>Incorrect/no answer</i>				
<i>Brief description, very little detail for example:</i>				
Cut out a flower shape from foam.				
<i>Some detail with some understanding of block printing for example:</i>				
Cut out a flower shape from foam, apply some paint and stick it on the material.				
<i>A more detailed explanation with clear understanding of block printing for example:</i>				
Use a laser cutter to create a block shape, this could be made from MDF. Apply some paint evenly to the block and place it face down on the material.				
<i>Fully detailed explanation with clear understanding of block printing for example:</i>				
Use a laser cutter to create a block shape, this could be made from MDF. Apply some paint evenly to the facing side of the block using a roller and place it face down on the material. This creates the flower shape on the material.				
				0
				1
				2
				3
				4

(iv)	Cushion Cover A needs a piped edge the same as that seen-on Cushion Cover B . Using notes and sketches explain how you would make a fabric covered piece of piping and insert it into the edge seam.		✓	6
<p><i>Answers that indicate an understanding of constructing piping and inserting into a seam should be awarded up to 6 marks based on:</i></p> <ul style="list-style-type: none"> • Bias cut strips over fabric need to be cut sufficiently wide enough to cover the cord. • Wrap the bias strips around the cord and stitch close to the cord to hold in place. • Use a specialist piping foot or one sided foot to get as close to the piping cord as possible. • Place the new piping on the edge of the material, right side of material facing; seam allowance to outside edge, cord inside; • Stitch in place. • Place other piece of fabric on top right sides inside and stitch in exactly same place as previous row – sandwiching piping cord in the seam. <p>Guidance to markers</p> <p><i>Incorrect/no answer.</i> 0</p> <p><i>Brief description/notes, one or two diagrams with little detail of the named process. Limited knowledge of constructing the piping.</i> 1-2</p> <p><i>More detailed description, with some explanation of the named process included alongside basic sketches, some knowledge of constructing the piping.</i> 3-4</p> <p><i>Detailed descriptions and explanation, including clear understanding of the named processes and constructing the piping. Clear annotated sketches Logical sequence.</i> 5-6</p> <p>Answers will vary depending on the sketches/method used. Assess the work as a whole, look for the key points listed above, and apply marks for notes and sketches based on above mark descriptors.</p>				

(v)	State the measurement for the standard seam allowance used in textiles and give a reason why it should be consistently applied when making the cushion covers.		✓	2
<p><i>Answers that indicate an understanding of the standard seam allowance should be awarded up to 2 marks based on:</i></p> <ul style="list-style-type: none"> • Standard seam allowance: 1.5cm (15mm) • This will ensure all parts go together as intended – if one part is out of tolerance impacts of pieces coming together elsewhere. • Seams need to be matched up with other seams on another piece – if one is out these won't match. • Will impact on quality and size of product. • Internally it will look much neater – can impact on external appearance. <p>Guidance to markers</p> <p><i>Incorrect/no answer.</i> 0</p> <p><i>Only acceptable answers for standard seam allowance: 1.5cm (15mm).</i> 1</p> <p><i>An appropriate reason for example:</i> 1 So all parts fit together and you get the shape you want.</p>				
(c)	Describe two reasons for using an invisible zip inserted into the side seam to fasten the covers.		✓	2
<p><i>Answers that indicate an understanding of the advantages of an invisible zip should be awarded up to 1 mark for each advantage.</i></p> <p>Guidance to markers</p> <p><i>Incorrect/no answer</i> 0</p> <p><i>An appropriate reason with some detail for example:</i> 1</p> <ul style="list-style-type: none"> • It is hardly visible as it inserted into a seam. 1 or • It is a more expensive looking finish – aesthetically better. 1 or • It is less likely to cause discomfort to the user when resting on the cushion. 1 or • As the teeth are on the inside of the zip its looks better. 1 				

(d) (i)	Name a finish that will prevent marks from permanently spoiling the cushions.		✓	1
	Guidance to markers <i>Incorrect / no answer.</i> <i>Only acceptable answer:</i> Stain resistant finish / Scotch guard/Teflon			0 1
(ii)	Describe a test that the designer could carry out to compare the shrinkage rates of materials in order to select the most suitable one for the cushion cover.		✓	5
	<i>Answers that indicate an understanding of a suitable test for shrinkage should be awarded up to 5 marks based on:</i>			
	<ul style="list-style-type: none"> • Cut out several pieces of material in all fabrics to be tested - all must be the same size and shape. Keep a control piece or record the size and shape the pieces. • Wash all the pieces at the same temperatures and time – same cycle. This process can be repeated several times and at different cycles and temperatures. • After washing compare each piece to the control piece or re measure each piece. • Any piece unaffected by washing does not shrink therefore is suitable for the cushion covers or demonstrating the least shrinkage is the best one for the covers. 			
	Guidance to markers <i>Incorrect / no answer.</i>			0
	<i>Brief description, very little detail for example:</i> Wash several pieces and compare the results.			1
	<i>Limited in detail but some understanding of shrinkage testing for example:</i> Wash several pieces of the same size and compare the results after washing a few times.			2
<i>A more detailed level of understanding of shrinkage testing for example:</i> Cut out several same size pieces of fabrics in all the different types to be tested, wash them all together in a suitable cycle, perhaps on different cycles. Compare them after washing.			3	
<i>Detailed description of testing shrinkage with clear understanding for example:</i> Cut out several same size pieces of fabrics in all the different types to be tested, wash them all together in a suitable cycle, perhaps more than once and on different cycles. Compare the results after washing with the control piece or original sizes.			4	
<i>Full and detailed description clearly demonstrating good knowledge and understanding of testing for shrinkage full for example:</i> Cut out several same size pieces of fabrics in all the different types to be tested, wash them all together in a suitable cycle, perhaps more than once and on different cycles. Compare the results after washing with the control piece or original sizes. The one that keeps the original size or shows least shrinkage is the best one to use.			5	
			Total	25