

Write your name here

Surname

Other names

Centre Number

Candidate Number

Edexcel GCSE

**Design and Technology:
Graphic Products
Unit 2: Knowledge and Understanding of
Graphic Products**

Sample Assessment Material
Time: 1 hour 30 minutes

Paper Reference
5GR02/01

You do not need any other materials.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- If pencil is used for diagrams/sketches it must be dark (HB or B). Coloured pens, pencils and highlighter pens must **not** be used.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 80.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed
– *you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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Answer ALL the questions.

For each question 1 to 10, choose an answer A, B, C or D. Put a cross in the box indicating the answer you have chosen . If you change your mind about an answer, put a line through the box and then mark your new answer with a cross .

1 In the retail and manufacture of products, what does the term EPOS stand for?

- A Electronic Profit and Service
- B Economical Printing and Stitching
- C Electronic Point of Sale
- D Efficient Production and Sales

(Total for Question 1 = 1 mark)

2 Non-ferrous metals do not contain iron. Which one of the following metals is a non-ferrous metal?

- A Aluminium
- B Steel
- C High Speed Steel
- D Carbon Steel

(Total for Question 2 = 1 mark)

3 5,000 colour copies of a flyer are needed

Which **one** of the following printing processes would be the most cost effective?

- A Screenprinting
- B Flexography
- C Offset lithography
- D Photocopying

(Total for Question 3 = 1 mark)



4 Which **one** of the following is a **disadvantage** of the internet?

- A Products are not immediately available
- B You can view products before you buy them
- C Companies can advertise to a very large amount of people
- D It is quick and convenient to use

(Total for Question 4 = 1 mark)

5 Which **one** of the following adhesives would be the most suitable for joining two pieces of acrylic?

- A Epoxy resin
- B Polystyrene cement
- C Tensol™ cement
- D Polyvinyl acetate (PVA)

(Total for Question 5 = 1 mark)

6 Because it prevents gas from escaping and has a crystal clear appearance, which of the following is used to make fizzy drinks bottles?

- A Polystyrene (PS)
- B Polyvinyl chloride (PVC)
- C Polyethylene terephthalate (PET)
- D polypropylene (PP)

(Total for Question 6 = 1 mark)

7 Which **one** of the following processes would be suitable for the mass production of the casing of a mobile phone?

- A Blow moulding
- B Injection moulding
- C Vacuum forming
- D Line bending

(Total for Question 7 = 1 mark)



8 A very large, one piece banner is needed to hang in a school reception area to promote its open days.

Which **one** of the following printing processes would be the most suitable for the banner?

- A** Offset lithography
- B** Gravure
- C** Photocopying
- D** Commercial digital printing

(Total for Question 8 = 1 mark)

9 Which **one** of the following is the government body set up to ensure that companies undertake safe working practices?

- A** Department for Trade and Industry
- B** Health and Safety Executive
- C** The Design Council
- D** Royal Institute of British Architects

(Total for Question 9 = 1 mark)

10 Which **one** of the following is **not** a biofuel?


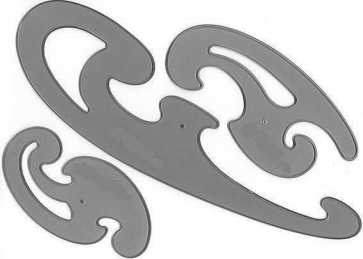


- A** Biogas
- B** Ethanol
- C** Vegetable oil
- D** Hydrogen

(Total for Question 10 = 1 mark)



11 (a) The table below shows some tools and equipment.

Complete the table below by giving the missing names and uses.

Tools and equipment	Name	Use
	Craft knife	(1)
	(1)	To draw curved lines
	Computer mouse	(1)
	(1)	To input images onto a computer



(b) The drawing below shows a van that has vinyl graphics applied to it.



(i) Give **two** reasons for using a vinyl cutting machine, involving CAD/CAM, to make the vinyl graphics.

(2)

1

2

(ii) The graphics are made from PVC.

Give **one** property of PVC that makes it suitable for the manufacture of the vinyl graphics.

For your property, give **one** reason for your answer.

(2)

Property

.....

Reason

.....

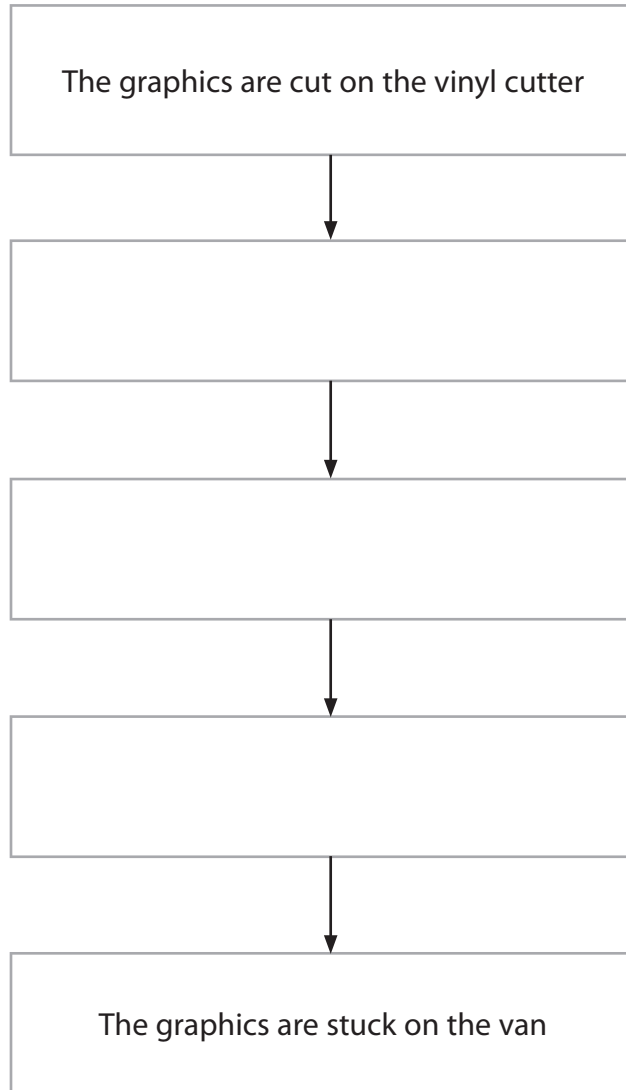
.....



(iii) Complete the diagram below to show the main stages in making the vinyl graphics and applying them to the side of the van.

Some of the stages have been done for you.

(3)



(c) The pictures below show two food packages.



Egg box made from expanded polystyrene (PS)



Pizza box made from corrugated cardboard

(i) Give **two** properties of expanded polystyrene that make it suitable for packaging eggs.

(2)

1

2

(ii) In the space below, use a labelled sketch to show the construction of corrugated cardboard.

(2)

A large empty rectangular box for drawing a labelled sketch of corrugated cardboard construction.

(iii) The table below shows some features of corrugated board.

For each feature of corrugated board give **one** reason why it is suitable for the pizza box.

(4)

Features	Reason
Corrugated board is a relatively low cost material	
Corrugated board is rigid	
Corrugated board is hygienic	
Corrugated board is a good insulator	

(Total for Question 11 = 19 marks)



12 A company needs to package its new 'Ultra-Torch' for sale in shops.

The torch uses an ultra-bright light emitting diode (LED) which is energy efficient.

The picture below shows the torch that needs to be packaged.



Overall dimensions:
Length – 20 cm
Diameter – 5 cm

Design specification

The specification for the package of the torch is that it should:

- securely hold the torch inside the package
- clearly show the torch inside the package
- allow customers to easily remove the torch from the package
- be easily stacked or hung in shops for retail display
- display the brand name 'Ultra Torch' on the outside of the package
- use graphics that make the consumer know that the product is energy efficient
- be manufactured using appropriate materials
- be manufactured using processes suitable for mass production.

In the spaces opposite, use sketches and, where appropriate, brief notes to show **two different** design ideas for the torch package that meet the specification points above.

Candidates are reminded that if a pencil is used for diagrams/sketches it must be dark (HB or B).

Coloured pens, pencils and highlighter pens must **not** be used.

PLEASE DO NOT WRITE OR DRAW IN THIS SPACE.

PLEASE USE THE SPACES OPPOSITE FOR YOUR DESIGNS.



Design idea 1

(8)

Design idea 2

(8)

(Total for Question 12 = 16 marks)



13 The picture below shows a traditional board game.



Box and playing board made from solid white board

Vacuum formed tray for playing pieces

Full colour graphics printed on the box and playing board



(a) Give **two** properties of solid white board that make it a suitable material for the box and playing board.

For each property, justify your answer.

(4)

Property 1

Justification

Property 2

Justification

(b) Explain **one** reason why offset lithography is a suitable process for printing the full colour graphics on the box and playing board.

(2)



(c) Explain why the board game is successful at meeting the following specification points:

(i) advertising the board game

(2)

.....

.....

.....

(ii) containing the playing pieces.

(2)

.....

.....

.....

*(d) The pictures below show two different games.



Game A – stacking wooden blocks game



Game B – traditional board game



14 The pictures below show three containers for milk.



Glass bottle



Plastic bottle



Carton made from packaging laminate

(a) Name **one** of the materials used to manufacture the packaging laminate for the carton.

(1)

(b) Explain **one** reason why consumers may prefer plastic bottles to glass bottles.

(2)



(c) The glass bottle is an example of a re-use and re-fill package.

Explain **two** environmental advantages of re-using the glass bottle.

(4)

1

.....

.....

2

.....

.....

(d) The carton is an example of a 'one trip' disposable package.

Explain **one** environmental advantage of using the carton.

(2)

.....

.....

.....

(e) When developing the design of the carton, the designer used e-mail to communicate with the manufacturer.

Explain **two** benefits of using e-mail for communication between the designer and manufacturer.

(4)

1

.....

.....

2

.....

.....



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Mark Scheme

Sample Assessment Material

GCSE

GCSE Design & Technology: Graphic Products (5GR02/01)

General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

Question Number	Answer	Mark
1.	C	(1)

Question Number	Answer	Mark
2.	A	(1)

Question Number	Answer	Mark
3.	C	(1)

Question Number	Answer	Mark
4.	A	(1)

Question Number	Answer	Mark
5.	C	(1)

Question Number	Answer	Mark
6.	C	(1)

Question Number	Answer	Mark
7.	B	(1)

Question Number	Answer	Mark
8.	D	(1)

Question Number	Answer	Mark
9.	B	(1)

Question Number	Answer	Mark
10.	D	(1)

Question Number	Answer	Mark
11.(a)	Craft knife	Cutting/scoring materials (1)
	French/compound curves (1)	To draw curved lines
	Computer mouse	To control cursor on screen/ to scroll up and down (1)
	Scanner/digital scanner/flatbed scanner (1)	To input images onto a computer
	4 x 1	(4)

Question Number	Answer	Mark
11.(b)(i)	<p>Two reasons given from:</p> <ul style="list-style-type: none"> • Fast/ efficient process (1) • Accuracy (1) • High quality finish (1) • Less labour intensive (1) 	
	2 x 1	(2)

Question Number	Answer	Mark
11.(b)(ii)	<p>One property and linked reason from:</p> <ul style="list-style-type: none"> • Property: Good flexibility (1) • Reason: Can wrap around contours of bodywork (1) • Property: Good weather resistance (1) • Reason: Will last a long time outdoors without peeling/fading (1) • Property: Good chemical resistance (1) • Reason: Will resist wear and tear from chemicals used in washing van/pollution (1) • Property: Smooth surface finish (1) • Reason: Can be smoothed easily/expelling air bubbles (1) • Property: Self finishing (1) • Reason: Does not require any additional surface finishes to be applied/ high quality surface finish already available (1) • Property: Can be coloured/wide variety of colours available (1) • Reason: Full colour graphics are achievable to add visual impact to side of van (1) 	
	2 x 1	(2)

Question Number	Answer	Mark
11.(b)(iii)	<p>Correct three stages identified:</p> <ul style="list-style-type: none"> • The unwanted vinyl is removed, or weeded (1) • Application tape is put over the letters/ graphics that are wanted (1) • The letters/graphics are removed from the backing sheet (1) <p style="text-align: right;">3 x 1</p>	(3)

Question Number	Answer	Mark
11.(c)(i)	<p>Two properties from:</p> <ul style="list-style-type: none"> • Good impact resistance/protection (1) • Lightweight (1) • Easily moulded into protective casing (1) • Relatively inexpensive (1) <p style="text-align: right;">2 x 1</p>	(2)

Question Number	Answer	Mark
11.(c)(ii)	<p>Sketch to include:</p> <ul style="list-style-type: none"> • Liners/ outer ply (1) • Fluting (1) <div style="text-align: center;"> </div> <p><i>Accept responses that have just one liner or show double or triple wall boards.</i></p> <p style="text-align: right;">2 x 1</p>	(2)

Question Number	Answer	Mark										
11.(c)(iii)	<table border="1"> <thead> <tr> <th>Feature</th> <th>Reason</th> </tr> </thead> <tbody> <tr> <td>Corrugated board is a relatively low cost material</td> <td>To keep price of product/unit cost low (1) Will be thrown away after single use so price is a factor (1)</td> </tr> <tr> <td>Corrugated board is rigid</td> <td>So that the box stays flat/does not bend/ to keep the pizza flat/ protect pizza (1) Easier to stack/ store/ carry/ transport (1)</td> </tr> <tr> <td>Corrugated board is hygienic</td> <td>To keep the pizza fresh/ So that it does not hold germs/bacteria that can spoil/affect the taste of the pizza (1)</td> </tr> <tr> <td>Corrugated board is a good insulator</td> <td>Does not allow heat to escape quickly/ to keep the pizza hot/warm (1)</td> </tr> </tbody> </table> <p style="text-align: right;">4 x 1</p>	Feature	Reason	Corrugated board is a relatively low cost material	To keep price of product/unit cost low (1) Will be thrown away after single use so price is a factor (1)	Corrugated board is rigid	So that the box stays flat/does not bend/ to keep the pizza flat/ protect pizza (1) Easier to stack/ store/ carry/ transport (1)	Corrugated board is hygienic	To keep the pizza fresh/ So that it does not hold germs/bacteria that can spoil/affect the taste of the pizza (1)	Corrugated board is a good insulator	Does not allow heat to escape quickly/ to keep the pizza hot/warm (1)	(4)
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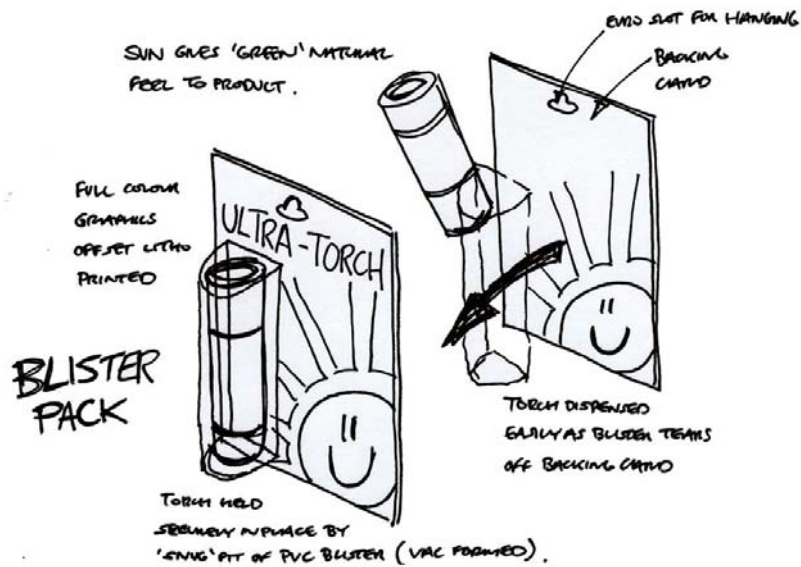
Question Number	Answer	Mark
12.	<p>Design idea 1</p> <p>Candidates may answer any specification point in either graphical form or by annotation.</p> <p>No marks are awarded for the quality of graphical communication.</p> <ul style="list-style-type: none"> • The design should hold the torch securely whilst in transit (1): eg internal packaging to prevent contents from moving (blister pack, card net etc). • The design should allow the torch to be clearly visible within the package (1): eg elements of the packaging must be transparent (acetate/ clear plastic window, clear PVC blister etc). • The design should allow customers to easily remove the torch when purchased (1): eg flaps and tucks indicated on a net, two halves of a clamshell/ blister etc. • The design should allow the shop to either hang on racks or stack on shelves for display (1): eg include a 'euro slot' for hanging or be a shape that tessellates easily for stacking • The design should display the brand name 'Ultra-Torch' on the outside of the package (1): eg package to include areas where brand name could be printed. • The design should imply energy efficiency on the package (1): eg graphics/text/slogans/phrase showing 'green'/ technological credentials • One material is indicated that is appropriate to the design (1): eg PVC for blister, folding boxboard/solid white board/ card for net etc • One mass manufacturing process is indicated that is appropriate to the design (1): eg vacuum forming for a blister, die cutting for a net etc. <p>Example of candidate response:</p> <p style="text-align: right;">8 x 1</p>	(8)

Design idea 2

Marks for design idea 2 can only be awarded where specification points are resolved differently than in design idea 1.

Example of candidate response:

(8)



8 x 1

Question Number	Answer	Mark
13.(a)	<p>Two properties and linked justification from:</p> <ul style="list-style-type: none"> • Property: Good strength (1) • Justification: Protection for contents of box/durability of box and playing board (1) • Property: Good rigidity (1) • Justification: Retains structure of box/playing board remains flat (1) • Property: Smooth/good quality surface finish (1) • Justification: Excellent print surface/high quality printing achieved (1) • Property: Can be machine scored/cut/folded (1) • Justification: Can be used on automated production and assembly lines/mass produced (1) <p style="text-align: right;">2 x 1 2 x 1</p>	(4)

Question Number	Answer	Mark
13.(b)	<p>One reason explained from:</p> <ul style="list-style-type: none"> • Good reproduction quality (1) therefore, giving a high quality finish (1) • Inexpensive printing process (1) therefore, unit costs are kept low (1) • High printing speeds (1) therefore, fast turn around of job (1) • Widely available (1) therefore, many commercial printers able to perform job (1) <p style="text-align: right;">2 x 1</p>	(2)

Question Number	Answer	Mark
13(c)(i)	<p>One explanation from:</p> <ul style="list-style-type: none"> • The box provides full graphic coverage/visual impact (1) therefore, easily distinguishable from other products (1) • Provides additional information about the product (1) so consumer can make an informed purchasing decision (1) <p style="text-align: right;">2 x 1</p>	(2)

Question Number	Answer	Mark
13.(c)(ii)	<p>One explanation from:</p> <ul style="list-style-type: none"> • The pieces cannot move within the box (1) therefore, securing/protecting the pieces (1) • Vacuum formed plastic tray (1) ensures that pieces are contained within tailor made compartments (1) • The tray provides individual compartments (1) to keep the pieces separate and secure (1) <p style="text-align: right;">2 x 1</p>	(2)

Question Number	Answer	Mark								
13.(d) QWC	<p>Evaluation to address the following issues:</p> <p>User requirements What qualities make the product attractive to potential users?</p> <table border="1"> <thead> <tr> <th>Game A</th> <th>Game B</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> • Game of skill • 2 players • Faster paced • Can be played indoors and outdoors • Compact storage/easily transported/ can be taken on holidays etc </td> <td> <ul style="list-style-type: none"> • Game of chance (with a degree of skill) • 2+ players • Long duration of play • Lots of playing pieces - easily misplaced </td> </tr> </tbody> </table> <p>Performance requirements What are the technical considerations that must be achieved within the product?</p> <table border="1"> <thead> <tr> <th>Game A</th> <th>Game B</th> </tr> </thead> <tbody> <tr> <td> <p><i>Simplicity:</i></p> <ul style="list-style-type: none"> • Wooden blocks must be of a uniform size and weight • Blocks must be sanded smooth with suitable surface finish </td> <td> <p><i>Many components:</i></p> <ul style="list-style-type: none"> • Many manufacturing processes needed • Packaging must be strong, rigid and durable • Vacuum formed compartments must house playing pieces securely </td> </tr> </tbody> </table>	Game A	Game B	<ul style="list-style-type: none"> • Game of skill • 2 players • Faster paced • Can be played indoors and outdoors • Compact storage/easily transported/ can be taken on holidays etc 	<ul style="list-style-type: none"> • Game of chance (with a degree of skill) • 2+ players • Long duration of play • Lots of playing pieces - easily misplaced 	Game A	Game B	<p><i>Simplicity:</i></p> <ul style="list-style-type: none"> • Wooden blocks must be of a uniform size and weight • Blocks must be sanded smooth with suitable surface finish 	<p><i>Many components:</i></p> <ul style="list-style-type: none"> • Many manufacturing processes needed • Packaging must be strong, rigid and durable • Vacuum formed compartments must house playing pieces securely 	(6)
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Level	Mark	Descriptor								
	0	No rewardable material								
Level 1	1-2	Candidate identifies the area(s) of comparison with no development OR identifies and develops one area. Shows limited understanding of the comparison. Writing communicates ideas using everyday language but the response lacks clarity and organisation. The candidate spells, punctuates and uses the rules of grammar with limited accuracy.								
Level 2	3-4	Candidate identifies some areas of comparison with associated developments showing some understanding of the comparison. Writing communicates ideas using D&T terms accurately and showing some direction and control in the organising of material. The candidate uses some of the rules of grammar appropriately and spells and punctuates with some accuracy, although some spelling errors may still be found.								
Level 3	5-6	Candidate identifies a range of areas of comparison with associated developments showing a detailed understanding of the comparison. Writing communicates ideas effectively, using a range of appropriately selected D&T terms and organising information clearly and coherently. The candidate spells, punctuates and uses the rules of grammar with considerable accuracy.								

Question Number	Answer	Mark
14.(a)	<p>One of the following:</p> <ul style="list-style-type: none"> • Polythene (1) • Aluminium foil (1) • Paperboard (1) <p style="text-align: right;">1 x 1</p>	(1)

Question Number	Answer	Mark
14.(b)	<p>One explanation from:</p> <ul style="list-style-type: none"> • Plastic is lighter than glass (1) therefore, it is easier to carry/transport (1) • Plastic does not break/shatter like glass (1) therefore, it is safer/ prevents wastage of milk (1) • Production/material costs are lower for plastic bottles (1) therefore, lower unit costs for consumer (1). • Screw lid (1) so re-sealable/ keeps milk fresher (1) • Handle (1) so is easier to carry/ pour (1) • Rectangular shape (1) stacks in the fridge (1) <p style="text-align: right;">2 x 1</p>	(2)

Question Number	Answer	Mark
14.(c)	<p>Two advantages explained from:</p> <ul style="list-style-type: none"> • No new materials are used (1) therefore, conserving resources (1) • No waste produced by disposal (1) therefore, reducing pollution/ landfill/ harm to wildlife (1) • Not recycled (1) therefore, saving energy/ reducing pollution (1) • Fewer bottles need to be made (1) therefore, less energy/pollution as a result of manufacturing process (1) <p style="text-align: right;">2 x 1 2 x 1</p>	(4)

Question Number	Answer	Mark
14.(d)	<p>One explanation from:</p> <ul style="list-style-type: none"> • No chemicals/processes used to sterilise the carton for re-use (1) therefore, less pollution/energy used (1) • No need to collect/return empty carton (1) therefore, no need to use energy/resources returning (1) • Carton will not break like glass (1) therefore, safer package/less risk of accidents (1) <p style="text-align: right;">2 x 1</p>	(2)

Question Number	Answer	Mark
14.(e)	<p>Two advantages explained from:</p> <ul style="list-style-type: none"> • Quicker means of communication (1) therefore, designer and manufacturer can agree decisions sooner/for around the world (1) • Designs can be sent electronically (1) therefore, edited easily (1) • E-mail exchanges can be saved (1) therefore, giving a dated record of all correspondence (1) <p style="text-align: right;">2 x 1 2 x 1</p>	(4)

Question Number	Answer	Mark
14.(f) QWC	<p>Discussion to address the following issues:</p> <ul style="list-style-type: none"> • Difficult/expensive for local councils to collect • Limited recycling schemes/public places to leave used items ie. Bottle banks • Difficult/expensive to sort different types of waste • Difficult/expensive to sort different polymers • Many products made from multiple materials which can't be separated/can't be recycled • Limited incentives/no legislation for consumers to recycle • 'Apathy' from general public unaware/ignorant of 'green' issues/benefits of recycling • Limited sanctions placed upon manufacturers for over-packaging products, therefore much more waste produced in first instance 	(6)
Level	Mark	Descriptor
	0	No rewardable material
Level 1	1-2	Candidate identifies the issues with no development OR identifies and develops one area. Shows limited understanding of the issues. Writing communicates ideas using everyday language but the response lacks clarity and organisation. The candidate spells, punctuates and uses the rules of grammar with limited accuracy.
Level 2	3-4	Candidate identifies some issues with associated developments showing some understanding of the issues. Writing communicates ideas using D&T terms accurately and showing some direction and control in the organising of material. The candidate uses some of the rules of grammar appropriately and spells and punctuates with some accuracy, although some spelling errors may still be found.
Level 3	5-6	Candidate identifies a range of issues with associated developments showing a detailed understanding of the issues. Writing communicates ideas effectively, using a range of appropriately selected D&T terms and organising information clearly and coherently. The candidate spells, punctuates and uses the rules of grammar with considerable accuracy.