OCR
RECOGNISING ACHIEVEMENT

GCSE

Design & Technology (Graphic Products)

General Certificate of Secondary Education   **GCSE 1955**

General Certificate of Secondary Education (Short Course)   **GCSE 1055**

Mark Schemes for the Components

June 2007

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General Certificate of Secondary Education Graphic Products (1955)

General Certificate of Secondary Education (Short Course) Graphic Products (1055)

MARK SCHEMES FOR THE UNITS

Mark Scheme 1055/01, 1955/01
June 2007

INSTRUCTIONS ON MARKING SCRIPTS

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(Section 8a – d, page 8)

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(Appendix 5, para 17, page 26)

Tolerance +/- 2mm

1	(a)	1 mark for vertical line (size and position) Octagon – 1 mark for each correct line drawn (size and angle not position)	1 3	**[4]**
	(b)	Rectangle, oblong Octagon	1 1	**[2]**
	(c)	Each appropriate advantage eg wide range to chose from easy to change sizes/images quicker to change designs do not have to draw design each time drawings are accurate. **No** marks for one word answers such as 'quick' or 'easy'	1 1	**[2]**
	(d)	Each appropriate improvement eg makes bookmark more durable/ stronger easier to clean gives it a gloss finish/glossy waterproof	1 1	**[2]**
			Total	**[10]**

2	(a)	A complete head has been drawn (Curves can be freehand but at least 3 lines must be drawn with a straight edge)	1	
		Lower section: 2 correct lines 1 mark At least 4 correct lines 2 marks	2	
		Upper section: 3 correct lines 1mark At least 5 correct lines 2 marks	2	**[5]**
	(b)	Die cutting, press knife or stamping	1	**[1]**
	(c)	Each appropriate reason 1 mark eg needs to be folded, needs to be printed on both sides, more expensive to cut out, waste material.	1 1	**[2]**
	(d)	Each appropriate distribution method 1 mark eg by hand, by post, from a leaflet holder	1 1	**[2]**
			Total	**[10]**

3	(a)	4 tabs drawn (can be freehand) 1 mark	1	
		2 symmetrical angled tabs 1 mark or 4 symmetrical angled tabs 2 marks	2	
		Tabs correctly labelled so that mouth closes 1 mark	1	**[4]**
	(b)	Appropriate method shown (sketch) eg thermochromic ink photochromic ink simple mechanism stick on 'wobbly eyes'.	1	
		Method clearly explained (notes) eg Thermochromic ink changes colour as eyes are touched (change in temperature) Photochromic ink will change as card is opened (change in light intensity) Sliding or rotating piece on back of card can make a different design appear if holes are made in the card where the eyes are Centre part of the 'wobbly eyes' move when the card is shaken	1	**[2]**
	(c)	Because shape is symmetrical only one half needs to be drawn By selecting mirror facility the computer will automatically draw (flip) the other half NB: Tick where each mark has been awarded	1 1	**[2]**
	(d)	Copyright Material cannot be copied without permission	1 1	**[2]**
			Total	**[10]**

4	(a)	Each appropriate reason 1 mark eg Easy to stick on Already coloured Gives good finish Easy to cut Waterproof Flexible to follow shape of van	1 1	**[2]**
	(b)	Each appropriate advantage 1 mark eg Do not have to redraw design each time Changes can be made to design Design can be resized easily Different colours can be tried Design can be sent electronically Easy to move design around to try different layouts Designs are not easily lost or damaged	1 1	**[2]**
	(c)	Key factors to look for (tick each one)		
	(i)	CAM machine identified - vinyl cutter or trade name eg Roland Camm machine Lynx and Ultra cutters Stika machine Cutting process briefly outlined	1 1	**[2]**
	(ii)	Design is 'weeded' (excess vinyl is removed) Tacky backing material (application film/tape) is smoothed over surface of vinyl Sticky backing is removed from vinyl Design is allied to van and tacky backing sheet is removed	1 1 1 1	**[4]**
			Total	**[10]**

5	(a)	Each appropriate reason 1 mark eg Easier/cheaper to post/transport Takes up less space Not so easily damaged as if it were assembled Saves manufacturer time	1 1	**[2]**
	(b)	Makes holder slope back (sketch) Improved stability (notes) To ensure leaflets do not fall out (notes)	1 1	**[2]**
	(c)	Tab fits into slot (sketch) Fixes base in place (notes)	1 1	**[2]**
	(d)	Each appropriate reason 1 mark eg Quicker / easier you don't have to wait for glue to dry Not as messy as using glue Person putting it together does not need any extra materials or equipment Holder more likely to be assembled and used if no extra materials are required Can be disassembled and used again **Not** just quicker or easier	1 1	**[2]**
	(e)	Material is too thin Holder would not be stable, parts would bend Not strong enough to hold leaflets	1 1	**[2]**
			Total	**[10]**

Mark Scheme 1055/02, 1955/02
June 2007

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(Appendix 5, para 17, page 26)

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(b)	Each appropriate advantage 1 mark eg Do not have to redraw design each time Changes can be made to design Design can be resized easily Different colours can be tried Design can be sent electronically Easy to move design around to try different layouts Designs are not easily lost or damaged	1 1	 **[2]**
(c)	Key factors to look for (tick each one)		
(i)	CAM machine identified - vinyl cutter or trade name eg Roland Camm machine, Lynx and Ultra cutters, Stika machine. Cutting process briefly outlined	1 1	 **[2]**
(ii)	Design is 'weeded' (excess vinyl is removed) Tacky backing material (application film/tape) is smoothed over surface of vinyl Sticky backing is removed from vinyl Design is allied to van and tacky backing sheet is removed	1 1 1 1	 **[4]**
		Total	**[10]**

2	(a)	Each appropriate reason 1 mark eg Easier to post/transport Takes up less space Not so easily damaged as if it were assembled Saves manufacturer time	1 1	**[2]**
	(b)	Makes holder slope back (sketch) Improved stability (notes) To ensure leaflets do not fall out (notes)	1 1	**[2]**
	(c)	Tab fits into slot (sketch) Fixes base in place (notes)	1 1	**[2]**
	(d)	Each appropriate reason 1 mark eg Quicker/easier you don't have to wait for glue to dry. Not as messy as using glue. Person putting it together does not need any extra materials or equipment. Holder more likely to be disassembled and used if no extra materials are required. **Not** just quicker or easier.	1 1	**[2]**
	(e)	Material is too thin (1 mark) Holder would not be stable, parts would bend. Not strong enough to hold leaflets. (1 mark)	1 1	**[2]**
			Total	**[10]**

3	(a)	Major and minor axes correct size	1	
		Some attempt at construction (1)		
		eg 2 circles plus some angled lines		
		OR		
		Construction correct (2)	2	
		Quality of final curve - to overlay	1	
		(Can be given without evidence of construction)		
		Headband correctly drawn	1	**[5]**
	(b)	Varnish, lacquer or laminating	1	**[1]**
	(c)	Appropriate design linked with Pandas or		
		Animal Aid (just lettering is acceptable)	1	
		Notes to explain that design will change with rise in		
		temperature as a result of heat from head.	1	**[2]**
	(d)(i)	Photocopying or computer printer.	1	
	(ii)	Offset lithography, offset litho or lithography.	1	**[2]**
			Total	**[10]**

4 (a)(i)	Outline of development needs to be perforated	1	
(ii)	Fold lines need to be creased	1	**[2]**
(b)(i)	Assembled view showing Top and end Side Tail	 1 1 1	 **[3]**
(ii)	Partially assembled box showing Top and end Bottom and sides partially assembled (folded) Tail section partially assembled (folded) Glue tabs shown folded Arrows used to good effect	 1 1 1 1 1	 **[5]**
		Total	**[10]**

5	(a)	Each side in correct position and drawn to correct size 1 mark		
		Tail section – shape and position (drawn freehand)	5	
		Tick each correct side	1	
		(Maximum 3 marks if shape of development correct but wrong size)		
		Do not accept freehand		
		At least 2 correct glue tabs (1)		
		OR		
		4 correct glue tabs (2)	2	**[8]**
	(b)	Key identifying		
		Fold lines	1	
		Glue tabs	1	**[2]**
			Total	**[10]**

Mark Scheme 1955/03
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Freehand not awarded marks in question 1a.

1	**(a)**	**(i)**	Any triangle shown in correct position (apex on centre lines)	(1)	
			Triangle correct to overlay (regardless of position)	(1)	**[2]**
		(ii)	Position of circle to overlay	(1)	
			Correct diameter of circle (regardless of position)	(1)	**[2]**
		(iii)	Radius 20mm larger	(1)	
			Left Radius end shown (regardless of position/must close mouth)	(1)	
			Accuracy of drawn mouth to overlay	(1)	**[3]**
	(b)		Some reference to sizes (of the face/head)	(1)	**[1]**
	(c)		Die Cutting/Laser Cutter/Stamping/Press Knives	(1)	**[1]**
	(d)		Some reference to hygiene or contamination (as the card is in contact with face)	(1)	**[1]**

TOTAL 10

2   **(a)**   At least two additional heights labelled in the correct position
              on the vertical axis **or** two additional ages labelled.   (1)

              Consistent width of four bars at 20mm (ignore gaps)   (1)

              Any two heights correct (1) **or** all four heights correct   (2)   **[4]**

  (b)   BAR CHART or HISTOGRAM given   (1)   **[1]**

  (c)   **Any two, in any order, from:**
              choose/open program (must be suitable eg excel/spreadsheet, chart wizard)
              input of data/measurements/information   (1)
              highlight data
              select type of chart   (1)
              edit style of chart eg colour/font   **[2]**

  (d)   Clear evidence of knowledge of a symbol ie simple outline,
              with no detail eg eyes/shoes, use of straight lines, curves
              (freehand accepted)   (1)

              Proportions taken from given figure (position of waist/arms)
              (freehand accepted)   (1)

              Use of instruments to produce a complete, quality symbol
              (only small curves accepted as freehand)   (1)   **[3]**

                                                  TOTAL 10

3   **(a)**   Upper case A, with thickness, drawn in gap   (1)

            Letter A is isometric, symmetrical, consistent width
            as letters S and M   (1)   **[2]**

        (b)   Tick 300 micron thick card   (1)   **[1]**

        (c) **Any 2 from:**
            Same box can be used for other purposes/names   (1)
            Lower cost as one box and range of labels
            Labels cheaper/easier to print than boxes   (1)
            Easier to personalise   **[2]**

        (d)   Four sides from the base   (1)

            All sides and ends 40mm   (1)

            Top in correct position and length same as sides   (1)

            All fold lines shown as a broken line   (1)

            Four glue tabs (tolerance 5-10mm) and fold in flap in correct position   (1)   **[5]**

                                                       TOTAL 10

4 **(a)** **Notes and sketches must be evident in each box to award marks**

Details of coloured card or individual parts (1)

Mention of accurate drawing ie use of set square (1)

Accurate cutting ie scissors/craft knife/cutting mat (1)

Suitable assembly of parts shown including some sort of
backing sheet to stick the parts onto (1) **[4]**

(b) **(i)** Graded, tonal shading to show cylinder, parallel to the line (1) **[1]**

(ii) Tonal shading to show cone ie shading going to the apex (1) **[1]**

(c) **(i)** Equipment SCANNER/DIGITAL CAMERA (1) **[1]**

(ii) Software PHOTOSHOP/Paint/2D Design/Adobe/Word or similar (1) **[1]**

(iii) **Tick one mark for effect, second for explanation, up to two marks:**
graded fill/tone (1) lighter in one area and darker in another (1)
shadows (1) coming from the bottom of the candle (1)
background (1) behind candle to suggest solid position (1) **[2]**

TOTAL 10

5   **(a)**   One reason why electronic circuits are now used in birthday cards, ie lower costs of components, small size of circuits   (1)   **[1]**

     (b)   Knowledge of embossing being a raised surface   (1)

          Some attempt to show the process ie the card coming in and being squeezed   (1)

          Good Quality sketches and notes   (1)   **[3]**

     (c)   **(i)**   The mechanism would stick out at the front of the card   (1)   **[1]**

          (ii)   Overcome by shortening one of the sides of the mechanism/making card larger   (1)   **[1]**

     (d)   **Tick either two points or one point and explanation eg:**
          Old fashioned clothes
          Old looking TV (1) would not appeal to teenagers (1)
          Graphical style not relevant   **[2]**

     (e)   Clear method for altering the number   (1)

          Idea will work on the card   (1)   **[2]**

                                          TOTAL 10

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         Details of coloured card or individual parts   (1)

         Mention of accurate drawing ie use of set square   (1)

         Accurate cutting ie scissors/craft knife/cutting mat   (1)

         Suitable assembly of parts shown including some sort of
         backing sheet to stick the parts onto   (1)   **[4]**

   (b)   **(i)**   Graded, tonal shading to show cylinder, parallel to the line   (1)   **[1]**

         (ii)   Tonal shading to show cone ie shading going to the apex   (1)   **[1]**

   (c)   **(i)**   Equipment SCANNER/DIGITAL CAMERA   (1)   **[1]**

         (ii)   Software PHOTOSHOP/Paint/2D Design/Adobe/Word or similar   (1)   **[1]**

         (iv)   **Ticks one mark for effect, second for explanation, up to two marks:**
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                shadows (1) coming from the bottom of the candle (1)
                background (1) behind candle to suggest solid position (1)   **[2]**

                                                   TOTAL 10

2 **(a)** One reason why electronic circuits are now used in birthday
             cards, ie lower costs of components, small size of circuits   (1)   **[1]**

     (b) Knowledge of embossing being a raised surface   (1)

             Some attempt to show the process ie the card coming in and
             being squeezed   (1)

             Good Quality sketches and notes   (1)   **[3]**

     (c) **(i)**   The mechanism would stick out at the front of the card   (1)   **[1]**

             (ii) Overcome by shortening one of the sides of the
                       mechanism/making card larger   (1)   **[1]**

     (d) **Tick either two points or one point and explanation eg:**
             Old fashioned clothes
             Old looking TV (1) would not appeal to teenagers (1)
             Graphical style not relevant (1)   **[2]**

     (e) Clear method for altering the number   (1)

             Idea will work on the card   (1)   **[2]**

                                                                          TOTAL 10

3   **(a)**   **(i)**   Plan projected above front view   (1)

                  Accuracy of top circle   (1)

                  Accuracy of bottom circle   (1)   **[3]**

        (ii)   Measurement of 55mm shown   (1)

                  Measurement shown to BS convention ie leader
                  lines, arrow heads   (1)   **[2]**

  (b)   Side view not needed as it is the same as front view   (1)   **[1]**

  (c)   THIRD sketch ticked   (1)   **[1]**

  (d)   Top circle drawn with a compass to overlay   (1)

        Bottom circle drawn with a compass to overlay   (1)

        Height 55mm (in centre of circles)   (1)   **[3]**

                                          TOTAL 10

4 **(a)** **(i)** Scale 1:2 shown accept, half full size   (1)   **[1]**

(ii) Hatch lines shown at approx 45 degrees   (1)

Hatching shown in opposite direction for the two pieces   (1)   **[2]**

(b) **Tick one mark for reason, one for explanation eg:**
Cheaper to produce the box/use labels (1) a box can be used for a range of
purposes (1)   **[2]**

(c) Square base between 100-110mm (ignore starting lines)   (1)

Depth of the base between 5-10mm   (1)

Ellipse shows evidence of construction method   (1)

Ellipse between 95-105mm within base   (1)

Depth of the ellipse between 5-10mm   (1)   **[5]**

TOTAL 10

5   **(a)**   **Tick each of following:**

A one piece development/net   (1)

Box will hold the cake but does not prevent it moving   (1)

Box will hold the cake and prevent the cake moving   (1)

A lid that will open and close   (1)   **[4]**

(b)   Correct scale of 1:2   (1)

Triangular base drawn   (1)

Sides to candidate solution (rectangular 4 sides, triangle 2 sides)   (1)

Tangential curved end (only possible if triangular)   (1)

Glue tabs sufficient to make box by candidates solution   (1)

Lid and fold in flap to candidate solution   (1)   **[6]**

TOTAL 10

General Certificate of Secondary Education

Design and Technology: Graphic Products (Full course) 1955

June 2007 Assessment Series

Component Threshold Marks

Component	Max Mark	A	B	C	D	E	F	G
1	50	-	-	30	25	21	17	13
2	50	37	27	22	17	-	-	-
3	50	-	-	30	26	22	18	14
4	50	30	26	22	16	-	-	-
5	105	84	71	59	47	36	25	14

Specification Options

Foundation Tier

	Max Mark	A*	A	B	C	D	E	F	G
Overall Threshold Marks	175	-	-	-	98	82	66	50	34
Percentage in Grade		-	-	-	26.5	26.6	21.2	14.6	7.9
Cumulative Percentage in Grade		-	-	-	26.5	53.1	74.3	88.9	96.8

The total entry for the examination was 7891

Higher Tier

	Max Mark	A*	A	B	C	D	E	F	G
Overall Threshold Marks	175	140	123	106	90	70	60	-	-
Percentage in Grade		8.9	22.5	29.5	23	12.4	1.9	-	-
Cumulative Percentage in Grade		8.9	31.4	60.9	83.9	96.3	98.2	-	-

The total entry for the examination was 10327.

Overall

	A*	A	B	C	D	E	F	G
Percentage in Grade	5.2	13.1	17.2	24.5	18.3	9.9	6.1	3.3
Cumulative Percentage in Grade	5.2	18.3	35.5	60.0	78.3	88.2	94.3	97.6

Statistics are correct at the time of publication.

General Certificate of Secondary Education

Design and Technology: Graphic Products (Short course) 1055

June 2007 Assessment Series

Component Threshold Marks

Component	Max Mark	A	B	C	D	E	F	G
1	50	-	-	30	25	21	17	13
2	50	32	27	22	17	-	-	-
3	105	84	71	59	47	36	25	14

Specification Options

Foundation Tier

	Max Mark	A*	A	B	C	D	E	F	G
Overall Threshold Marks	175	-	-	-	101	83	66	49	32
Percentage in Grade		-	-	-	25.9	29.3	20.7	15.5	5.2
Cumulative Percentage in Grade		-	-	-	25.9	55.2	75.9	91.4	96.6

The total entry for the examination was 66.

Higher Tier

	Max Mark	A*	A	B	C	D	E	F	G
Overall Threshold Marks	175	140	123	106	90	71	61	-	-
Percentage in Grade		8.6	30.1	30.1	20.4	6.5	3.2	-	-
Cumulative Percentage in Grade		8.6	38.7	68.8	89.2	95.7	98.9	-	-

The total entry for the examination was 94.

Overall

	A*	A	B	C	D	E	F	G
Percentage in Grade	5.3	18.5	18.6	22.5	15.2	10.0	5.9	2.0
Cumulative Percentage in Grade	5.3	23.8	42.4	64.9	80.1	90.1	96.0	98.0

Statistics are correct at the time of publication.

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