

General Certificate of Secondary Education

Design and Technology Graphic Products 3553/H

Short Course: Higher Tier

Mark Scheme

2008 examination - June series

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation meeting attended by all examiners and is the scheme which was used by them in this examination. The standardisation meeting ensures that the mark scheme covers the candidates' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for the standardisation meeting each examiner analyses a number of candidates' scripts: alternative answers not already covered by the mark scheme are discussed at the meeting and legislated for. If, after this meeting, examiners encounter unusual answers which have not been discussed at the meeting they are required to refer these to the Principal Examiner.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of candidates' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

Further copies of this Mark Scheme are available to download from the AQA Website: www.aqa.org.uk

Copyright © 2008 AQA and its licensors. All rights reserved.

COPYRIGHT

AQA retains the copyright on all its publications. However, registered centres for AQA are permitted to copy material from this booklet for their own internal use, with the following important exception: AQA cannot give permission to centres to photocopy any material that is acknowledged to a third party even for internal use within the centre.

Set and published by the Assessment and Qualifications Alliance.

1 Environment

(a) 'sustainable' forest, e.g. managed, harvested and replanted, considerate of wild life and inhabitants, not using up natural resources, renewing or recycling the environment. Human intervention

Good understanding, explicit, examples. Human intervention (3 marks) (replanting)

Satisfactory understanding, basic concept, no detail (2 marks)

An attempt, confused but within topic (1 mark)

Incorrect or not attempted (0 marks)

(b) Logo – context, environment not sustainable forest

Feature 1:

The Globe (aka Earth, planet, world)

Full understanding, clear meaning, examples. e.g. universal, (2 marks)

world wide.

Satisfactory understanding, basic concept, no detail (1 mark)

Incorrect or not attempted (0 marks)

(* 1)

Feature 2:

The Leaves (aka twig, plant)

Full understanding, clear meaning, examples. e.g. nature, (2 marks)

related to trees/timber, growth, health, re-growth, renew.

Satisfactory understanding, basic concept, no detail (1 mark)

Incorrect or not attempted (0 marks)

Feature 3:

A Hand

Full understanding, clear meaning, examples. e.g. caring, (2 marks)

looking after, protective, power (all-embracing)

Satisfactory understanding, basic concept, no detail (1 mark)

Incorrect or not attempted (0 marks)

2 marks

3 marks

2 marks

2 marks

1 (c)

(i) Logo design

Do not reward if different features or different logo unconnected with question. Must be in context.

Development

Strong direct evidence of development progression (3 marks)

Some evidence of development progression (2 mark)

Single sketch (1 mark)

Not attempted or incorrect (0 marks) 3 marks

Quality:

Reward even if incorrect logo development

Neat sketches, informative (2 marks)

Adequate sketches, some general untidiness (1 mark)

Not attempted (0 marks)

2 marks

(ii) Logo Sketch

related to development, reward if wrong theme

Good, neat sketch, clear and conveys meaning (3 marks)

Adequate sketch, some untidiness, some confusion (2 marks)

Poor sketch, fails to convey meaning, very untidy (1 mark)

Not attempted (0 marks)

3 marks

TOTAL 17 marks

2 Representation of data

Advantage of pictograph (a)

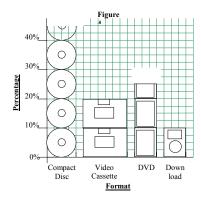
Full explanation, with reason e.g. easy to read and (3 marks) understand, quick intake of data, more interesting than bars

Partial explanation e.g. attempt at reasoning (2 marks)

An attempt, e.g. not reasoning evident (1 mark)

Incorrect, not attempted (0 marks)

Pictograph (be strict – one symbol per 10%) (b)



(i) Accuracy:

each pictograph bar correct – height on line (pro rata), (4 marks) up to 45%, 20%, 25%, 10%

4 marks

3 marks

(ii) Symbols: (maximum of 2 marks if generally poor reproduction of symbols)

each present and accurate representation (pro rata) (4 marks)

both half symbols correctly drawn (1 mark)

Other symbols used, not attempted (0 marks)

5 marks

(iii) Colour:

> Good quality, enhances drawing, visual impact (3 marks)

> Adequate quality, some imperfections e.g. out of 'box', (2 marks)

uneven colour (good monochrome max.)

An attempt, poorly executed, colours poorly used or (1 mark)

incomplete

No colour – line drawings only, not attempted (0 marks)

3 marks

TOTAL 15 marks

3

<u>Letter-styles</u> Accept any type of music.

			TOTAL	9 marks
	Conf	used, not attempted	(0 marks)	3 marks
		ttempt, superficial e.g. 'it's the best', 'I like it'	(1 mark)	
	Simp	ole, elementary, mainly descriptive, self -congratulatory	(2 marks)	
(c)	Reas	soned explanation, logical and complete.	(3 marks)	Zillaiks
	Conf	used, not attempted	(0 marks)	2 marks
	Minir	mal development little progression, minor detail	(1 mark)	
	Evid	ence of development: e.g. progression of idea	(2 marks)	
` ,	Both	single line lettering, max. 1 mark. evidence	,	2 marks
(b)	Two	distinctly different letter-styles (pro rata)	(2 marks)	1 mark
		No name offered	(0 marks)	
	(ii)	Name offered (Minimum 2 letters) No penalty if more than two words long – self penalising in Q3	(1 mark)	I IIIaik
		Not attempted	(0 marks)	1 mark
(a)	(i)	Type of music offered, must be given in figure 4	(1 mark)	

4 Design Development & Presentation Drawing

Confused, unclear, not attempted

(Accept any sketch as starting point, with or without text)

Related to all response panels inc. Presentation. (a) Strong direct evidence of developmental progression (3 marks) Development evident, some very similar major (2 marks) features No development, discrete ideas (1 mark) No development or not attempted (0 marks) 3 marks Clearly related to type of music e.g. instruments Images related to music type stated in Q3 (2 marks) Limited references to music (1 marks) Confused, unclear, not attempted (0 marks) 2 marks Quality of communicating design (2 marks) Satisfactory sketches (1 mark)

(0 marks)

2 marks

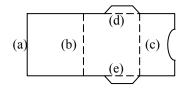
4 (b) Presentation Drawing of Inset Card

(c)

<u>Use of information</u> Use or information (from Question 2)	(1 mark)	
Different name or letter style	(0 marks)	1 mark
Quality of sketching Good quality, easily recognisable drawings	(3 marks)	IIIIaik
Adequate quality, some confusion or imperfections	(2 marks)	
An attempt, lacks precision e.g. use of felt tip pens	(1 marks)	
Sketch does not match stated stage (confused)	(0 marks)	3 marks
Colour rendering Very good quality, enhances drawing, visual impact e.g. very good tonal control, even cover	(5 marks)	
Good quality, higher skills attempted	(4 marks)	
Satisfactory quality, some imperfections e.g. out of 'box' uneven colour. No higher skills (good grey pencil and/or not finished or predominantly white, max. 3 marks)	(3 marks)	
An attempt, poorly executed, colour poorly applied	(2 marks)	
Poor, no attempt at quality, heavy handed, scribble	(1 mark)	
No colour – line drawings only, not attempted	(0 marks)	5 marks
Layout of features Good visual impact, e.g. effective use of space Satisfactory, some sense of composition Poor, no sense of composition Very poor, not organised or not attempted	(3 marks) (2 marks) (1 mark) (0 marks)	3 marks
Evaluation of CD design Critical, relevant, related to design, reasoned	(3 marks)	3 illaiks
Descriptive, some relevance implied	(2 marks)	
An attempt, superficial, labels	(1 mark)	3 marks
	TOTAL	22 marks

5 <u>Surface Development (Nets) and British Standards</u>

Surface Development (Net)



Overall length & width (guide - three squares in)	(1+1 mark)	2 marks
Vertical & fold lines (correct position and length) one full (a) and four broken (b,c,d,e) any four correct any three correct any two correct one correct not attempted	(5 marks) (4 marks) (3 marks) (2 marks) (1 mark) (0 marks)	
Cut out – ellipse/elliptical		5 marks
Complete, good proportion, inc. verticals (e) Less accurate, out of position Wrong edge, not attempted	(2 marks) (1 mark) (0 marks)	2 marks
Glue tabs		
Correct, in all aspects inc. mitres Not attempted	(1 mark) (0 marks)	
Line quality		1 marks
Consistently dark, sharp, neat corners Some imperfections Untidy, freehand, blunt pencil	(2 marks) (1 mark) (0 marks)	2 manta
		2 marks
	TOTAL	12 marks

6 <u>Creating an Image</u>

e.g.

Mark either A or B. If both attempted mark both and record the higher mark. Read response and assess completeness of process.

PART A: BY HAND

(a)	Process will ensure a perfect outcome	(4 marks)	
	Process is sufficient for a successful outcome, minor errors	(3 marks)	
	Process is likely to result in a recognisable outcome, some errors	(2 marks)	
	An attempt basic process, many errors, important stages omitted	(1 mark)	
	Confused, unsuccessful out come, not attempted	(0 marks)	4 marks
(b)	Tools, equipment (beware generic names e.g. knife) Match to process even if incorrect process above		4 IIIai KS
	All tools/equipment appropriate for stage & correctly named	(4 marks)	
	Most tools/equipment appropriate for stage & correctly named	(3 marks)	
	Some tools/equipment named but could be at wrong stage	(2 marks)	
	An attempt many incorrect items OR generic names through	(1 mark)	
	out Confused, incorrect or not attempted	(0 marks)	4 marks
			4 marks

No	Description	Tools, equipment etc
1	Cut out guitar from fig 5.	e.g. Scissors, craft knife, Stanley
2	Apply glue to cut out.	e.g. PVA, Pritt-stick, spray-glue
3	Position cut out on background.	e.g. ruler

(c)	Sketch of tool / equipment Name of tool matches representation in sketch (from table)	(1 mark)	
	A good representation of the named tool / equipment	(2 marks)	
	Adequate attempt, some imperfections e.g. proportion	(1 mark)	
	An attempted, not recognisable	(0 marks)	3 marks

PART B: BY CAD

(a) Computer Aided Design Program

Process will ensure a perfect outcome (4 marks)

Process is sufficient for success, minor errors (3 marks)

Process result in a recognisable outcome, some errors (2 marks)

An attempt basic process, many errors (1 mark)

Confused, unsuccessful out come, not attempted (0 marks)

4 marks

(b) Toolbar icons

All commands appropriate for stage & correctly named (4 marks)

Most commands appropriate for stage & named (3 marks)

Some commands named but could be at wrong stage (2 marks)

An attempt incorrect stages OR generic names through out (1 mark)

Confused, incorrect or not attempted (0 marks)

4 marks

e.g.

1	Trace (high-light) around guitar	e.g. 'cut out tool
2	Save cut out / export.	e.g. disc, save icon
3	Open fig 6, paste guitar cut out.	e.g. open command
4	Position cut out on background & save.	e.g. disc, save icon

(c) **Sketch** computer icon

A good representation of the named icon (3 marks)

Adequate attempt, some imperfections e.g. proportion (2 marks)

A recognisable representation of icon (1 mark)

Confused, unrecognisable, incorrect not attempted (0 marks)

3 marks

TOTAL 11 marks

7 Materials

(a)

(i)	200 gsm e.g. 200 grams per square metre Correct interpretation, all factors explained	(3 marks)	
	Two factors correctly explained	(2 marks)	
	One factor identified	(1 mark)	
	Incorrect, not attempted	(0 marks)	3 marks
(ii)	'A' series		Jillaiks
	Only answer is 4	(1 mark)	
	Incorrect, not attempted	(0 marks)	1 mark
(iii)	'Bleeding' e.g. ink spreads as liquid is drawn by capillary action of fibres.		IIIIaik
	Full reasoned understanding e.g. effect and cause	(2 marks)	
	Some understanding but no reasons given		
	e.g. ink spreads	(1 mark)	
	Not attempted, or incorrect	(0 marks)	2 marks
(iv)	Safety: e.g. ventilation, face mask, spray booth Full reasoned understanding e.g. effect and cause	(2 marks)	2 marks
	Some understanding but no reasons given	(1 mark)	
	Not attempted, or incorrect	(0 marks)	2 marks

7 (b)

(i) **Texture**



Good attempt at texture, even & consistent (3 marks)

An attempt a showing some texture, not very successful (2 marks)

Flat shading, no discernable texture (1 mark)

Incorrect, not attempted (0 marks)

Clear Plastic (ii)



or



Good representation of material, shows flair (3 marks) e.g. good transparent effect, reflective lines, colour

Could be clear plastic, satisfactory representation (2 marks)

e.g. poor use of colour lines

An attempt. hardly represents a transparent material

e.g. scribble, inappropriate use of colour

Not attempted, obviously wrong material shown

(1 mark)

(0 marks)

3 marks

3 marks

TOTAL 14 marks