

CURRICULUM PLAN

GRAPHICS
BRAMHALL HIGH SCHOOL

Curriculum Intent

YEAR 7

DMA projects that help students to develop the skills, knowledge and understanding to design and make high quality 3D products and to communicate their design journey.

YEAR 8

DMA projects that help students to develop the skills, knowledge and understanding to design and make high quality 3D products and to communicate their design journey.

YEAR 9

DMA projects that help students to develop the skills, knowledge and understanding to design and make high quality 3D products and to communicate their design journey.

YEAR 10

DMA projects that help students to develop the skills, knowledge and understanding to design and make high quality 3D products and to communicate their design journey.

YEAR 11

DMA projects that help students to develop the skills, knowledge and understanding to design and make high quality 3D products and to communicate their design journey.

	YEAR 7						
Term	Programme of Learning	Links to the National Curriculum / Specification / Additional	Assessments	What extra learning opportunities are planned?	Disciplinary Literacy		
Yr 7 students remain in a D&T subject for 12 weeks. Yr7 students rotate around all D &T subjects – 3 rotations in Yr7 and 2 in Yr8	Students create a personalised CD of themselves. They use a digital camera and upload the images from FOLDR. Drawings are traced using light boxes and the images are scanned, edited and coloured using CS6. Students then experiment with filters and layers and design their own CD using existing examples as inspiration. (learning & developing) Skills, Knowledge and Understanding Creation of folders Target market	A = AIMS D = Design M = Make E = Evaluate T = Technical Knowledge A1, A2, A3, D3, D4, D5, M1, M2, E3	 See assessment planning Front cover Hand drawn CD - planning Band Ideas page Scanning and editing Filters and effects Final CD 	Subject design competitions 3D printer club Ambassadors meetings & tasks	Photograph Download Trace Crop Place Baby Bear (slang) Double-click Right & Left click Ungroup Silhouette Line-Art Scan (PNG File) Edit		

CD Research & analysis – specification Use of digital camera		Layer Rasterise
Tracing using light box		
Downloading from VLE		Place inside container
Booklet creation		Filter gallery
Scanning – photoshop Editing – Illustrator		Save-as
Coloring – Illustrator & Photoshop Vector and		Specification
bitmap awareness		Survey
Downloading simple backgrounds Simplistic		Social Media
experimatation with layout Creation of final		QR Code
product Evaluation against		Bar Code
design criteria		Booklet

	YEAR 8						
Term	Programme of Learning	Links to the National Curriculum / Specification / Additional	Assessments	What extra learning opportunities are planned?	Disciplinary Literacy		
Y8 students remain in a D&T subject for 12 weeks for 2 more rotations and then study mini-projects for 5 Weeks – rotating 5 times. <u>COVID WILL IMPACT on this</u>	Students create a personalised ring for themselves using the 3D Printer. Students measure each other's hands to appreciate anthropometric data and its importance when designing products to be used/worn. Students design a variety or ring designs by hand before tackling the 'Sketch-up programme'. Rings are coloured, viewed and client-oriented views are generated. Promotional materials and 3D packaging (time allowing). Meeting set deadlines Independent creation	A = AIMS D = Design M = Make E = Evaluate T = Technical Knowledge A1, A2, A3, D3, D4, D5, M1, M2, E2, E3, E4, T4	See assessment planning	Packaging extension tasks for the more able. Promotional material to sell the products	Sketch-up Toolbar large toolset Anthropometric data Bespoke Leonardo Davinci Average / mean Use of mm Diameter Radius push & pull Isometric sketch		

of design work	Upload &
Planning time	download
effectively	
Problem & design brief	70
understaning	3D printer
Target market clarified	Typert 2d Craphia
and eplored	Export 2d Graphic
CD Research & analysis	Export 3D Graphic
- specification	Export 3D Grapine
Use of SKETCH-UP	Depth
programme	
Tracing using light box	Thickness
– isometric 3D	
sketching Downloading	Width
from VLE	
2D exporting of images	Upload
Use of CAD & CAM – 3D	Target Market
Printer (not block	rarget Market
modelling) Powerpoint	Base
creation to promote a	
product Anthopometric	
data – understanding	
Downloading	
backgrounds	
independent	
experimatation with	
layout	
Creation of final	

product Creativity and originiality Evaluation against design criteria Presentation in a booklet		

	YEAR 9					
Term	Programme of Learning	Links to the National Curriculum / Specification / Additional	Assessments	What extra learning opportunities are planned?	Disciplinary Literacy	
Y9 students remain in a D&T subject for 18 weeks. Students then rotate 2 or 3 rotations dependent upon staffing/option popularity and group size	Students create a3D promotional material for a new movie of their choice. All folder work uses CS6 and is A3 sized. Students select a theme and develop images for their movie. Images are drawn/traced, scanned, edited and coloured. Layouts are considered, and a final 2D cinema stand is designed. The 3D element utilises 2D Design programme, where a 1:5 scale stand is modelled and made using GX300. Working as an individual Select design theme Planning time effectively to utilise lesson and home tasks	A = AIMS D = Design M = Make E = Evaluate T = Technical Knowledge A1, A2, A3, D3, D4, D5, M1, M2, E2, E3, E4, T4 A1, A2, A3, D3, D4, D5, M1, M2, E3	See assessment planning Thought shower Film ideas Image development 3D modelling of stand Stand Stand development 1 Stand development 2 Final stand Problem & Design Brief	A series of skills, knowledge and understanding lessons support the projects. Students rotate round and experience a bespoke programme where they learn essential elements for their examination.	Folder Download Trace Crop Place Baby Bear (slang) Double-click Right & Left click Ungroup Silhouette Line-Art Scan (PNG File) Edit	

Problem & design brief		
mastery		Layer
Target market mastery		Daataria
		Rasterise
CD Research & analysis –		Place inside
specification mastery		container
Use of digital camera		Container
mastery		Filter gallery
Tracing using light box		3 3
mastery		Save-as
Downloading from VLE		
mastery		CAD & CAM
		Carra Maralaina
Use of VLE for		Cam Machine
independent study		Scale 1:1 1:5 1:10 etc
Booklet creation		Scale 1.1 1.5 1.10 ctc
mastery		Net / Development
Use of CAD & CAM – cnc		
GX 300 mastery		2D Design
Independently Scanning		
– photoshop mastery		Gridlock / attach
Independently Editing –		tool
illustrator mastery		CNCOuterut
Independently Coloring		CNC Output
- CS6 - EMF File mastery		Cut by Colour
Vector and bitmap		Cat by Colour
understanding &		Passes, Force,
mastery Background		Speed
experimtation and		·

innovation Experimatation & layout mastery		Spray mount & Contact adhesive
Creation of final layouts – apply criteria		
Independent reativity and originiality		
Evaluation against design criteria		
Hand skills mastery classes		
Ciasses		

	YEAR 10						
Term	Programme of Learning	Links to the National Curriculum / Specification / Additional	Assessments	What extra learning opportunities are planned?	Disciplinary Literacy		
Term la	Key Ring 'ready for sale' Design task. (strict non-negotiable design criteria) Key Ring using the Laser Cutter. Images are scanned, edited and are then either coloured using Photoshop or Imported into Lightburn where the Image Is manipulated into a key ring.	AQA Specification - full coverage REPEATED PROJECT ALLOWING ALL STUDENTS TO ACCESS	Individual elements are assessed but the whole project must fit on one A3 page. Sketching Imagery Scanning (Photoshop) Editing (Illustrator) Colouring (Photoshop) Lightburn keyring design Layout of page of all elements including the 3D Process of laser cutting.	3 rd angle orthographic projection, Smart & modern materials Isometric projection Packaging of product time permitting.	Scan PNG file Edit place ungroup smart-object rasterize layers outline etch & cut Lightburn Import / export Vacuum forming Thermoplastic Mould		

Term 1b	Rotations within D&T will occur, this is dependent upon the number of groups. Either 3 or 4 rotations dependent upon popularity	REPEATED PROJECT ALLOWING ALL STUDENTS TO ACCESS	MOCK 1 – Students sit a full GCSE Mock Exam. (non- aided the design theme is not shared with students)	Printing techniques Exploded drawings Crating	
Term 2a	Rotations within D&T will occur, this is dependent upon the number of groups. Either 3 or 4 rotations dependent upon popularity	REPEATED PROJECT ALLOWING ALL STUDENTS TO ACCESS	Brain storm, Target Market, Anthropometric Data, Ideas, Development and modifications, Research, 6-R's, Sketch-up journey, Views, Evaluations x 3	Students create a 25min lesson in pairs to teach to the class.	

Term 2b	Glasses Case '3D	MOCK 2 – Students	Students teach their own	layer
	Packaging' Design task.	sit a full GCSE Mock	prepared lessons on	push and pull
	(brief available on	Exam.	specific knowledge	arthrometric data
	request)		areas. Smart/Moderm	accuracy
		(students are	materials booklets	large-tool set
	(strict non-negotiable	supported with the	created	Export 2D graphic
	design criteria)	theme and are		Export 3D graphic
		prepared within		Sketch
	Students are taught to	lessons)		Developing idea
	design a 3D product using	,		Modifications
	sketching modelling, 3D	Brain storm, Target		Target market
	modelling, 2D Design Cad	Market,		Needs & wants
	& Cam modelling.	Anthropometric		Treeds & Warres
	a carrifficaelling.	Data, Ideas,		
	Ctudents mind man the	Development and		
	Students mind map the	•		
	educational theme and	modifications,		
	design a glasses case	Research, 6- R's,		
	which meets the given	Sketch-up journey,		
	brief.	Views, Evaluations x		
		3		

Term 3a	Sketchup – driving test, 3D sketching – crating Cloudburst, Investigation into the 6 R's, Freehand ideas, paper engineering, modelling using card. 2D Desig modelling. A detailed evaluation against: Design criteria, Initial intentions, 3 rd party opinion Repeat modelling to finalise the design QC pass & fail explored and evidenced. Photos of final product	Options – students opt for their favourite D&T Subject	Brain storm, Target Market, Anthropometric Data, Ideas, Development and modifications, Research, 6-R's, Sketch-up journey, Views, Evaluations x 3	Students teach their own prepared lessons on specific knowledge areas. Smart/Moderm materials booklets created.	
Term 3b	GCSE PROJECT THEMES ARE RELEASED BY AQA Students are made aware of the dept limitations for their CA projects. CONTROLLED ASSESSMENT STARTS		Projects negotiated and deadlines agreed before summer break. 4 A3 pages min requirement		

YEAR 11								
Term	Programme of Learning	Links to the National Curriculum / Specification / Additional	Assessments	What extra learning opportunities are planned?	Disciplinary Literacy			
Term la	CONTROLLED ASSESSMENT		MOCK 3 – Students sit a full GCSE Mock Exam. (students are supported with the theme and are prepared within lessons) Mock feedback session					
Term 1b	CONTROLLED ASSESSMENT		MOCK 3 – Students sit a full GCSE Mock Exam. (students are supported with the theme and are prepared within lessons) Mock feedback session					

Term 2a	CONTROLLED	MOCK 3 – Students	
	ASSESSMENT	sit a full GCSE Mock	
		Exam. (students are	
		supported with the	
		theme and are	
		prepared within	
		lessons)	
		,	
		Mock feedback	
		session	
Term 2b	Submission of Controlled		
	Assessment.		
	7.5505511101111		
	Half term		

Term 3	Yrll have tailored revision lessons to prepare them for their exam whilst exploring gaps in learning.		
	Boosters planned and delivered to prepare students.		