

#### Curriculum Overview 2023-24: Design and Technology – Graphics: GCSE Ed-Excel

AMA

Graphic Products is a design and technology subject taught at both KS3 and KS4. It develops student's skills and understanding in drawing techniques, presentation techniques and the use of Computer Aided Design (CAD).

Year Group 7 Graphics	Autumn Term / Spring Term <u>Bobble Head Superhero</u> : During this based on the theme of superheroes. enhance their drawings. Students de Technology subjects. Students gain a theme to create a product that is con developments, using numeracy to de	Useful information / websites www.technologystudent.com www.BBCbitesize.com www.designtechnology.info/home		
Year Group 8 Graphics	Autumn Term / Spring Term Personalised Mug Sublimation: This introducing perspective drawing skill and transferred by them using a subl that students can experience in a cla process by drawing their initial ideas design. Alongside this, students gain ideas to suit various audiences, as we design can influence a product.	Useful information / websites www.technologystudent.com www.BBCbitesize.com www.designtechnology.info/home		
Year Grou	IP Autumn Term	Spring Term	Summer Term	Useful information / websites
Year 9 Graphics	Development of basic but technical drawing skills followed by a mini-drawing project, incorporating these skills with real life objects/products • One point/two-point	Understanding brand design. Producing a brand name and logo linked to the theme of creating their own drink bottle brand. • Typography • Logo development • Creative wording	Understanding complex net developments and design related to a theme of creating a chocolate box or perfume/aftershave box • 2D shapes • 3D shapes	www.technologystudent.com www.BBCbitesize.com www.designtechnology.info/home www.design-technology.org
	<ul><li>perspective</li><li>Isometric projection</li></ul>	Slogan design	Construction     methods	www.mr-dt.com

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	<ul> <li>3D drawing from 2D shapes</li> </ul>	<ul> <li>Use of images and wording to gain</li> </ul>	<ul> <li>Design development</li> <li>Branding / logo</li> </ul>	www.edexcel.com/designandtechnology.com
	<ul> <li>Mini-skills based project highlighting</li> </ul>	<ul><li>personification</li><li>Colour/shade/tone</li></ul>	<ul> <li>design</li> <li>Links to industrial</li> </ul>	
	drawing skills related to products	<ul> <li>Analysing existing brands/logos</li> <li>CAD/CAM design a &amp;</li> </ul>	<ul> <li>• Use of CAD/CAM for design, development</li> </ul>	
		development	and construction.	
Year 10 Graphics	Design and Technology core content: Learning key areas that are required for the GCSE	Core content is continued thorough the spring term.	Core content is continued through the summer term.	www.technologystudent.com www.BBCbitesize.com
	exam and the non-examined assessment (project).	<ul> <li>The functions of mechanical devices used to produce different sorts</li> </ul>	• The categorisation of the types, properties and structure of	www.designtechnology.info/home
	The impact of new     and emerging     technologies	of movements, including the changing of magnitude and the	<ul> <li>papers and boards</li> <li>The categorisation of the types, preparties</li> </ul>	www.design-technology.org
	<ul> <li>How the critical evaluation of new and</li> </ul>	<ul><li>direction of forces</li><li>How electronic systems</li></ul>	the types, properties and structure of thermoforming and	www.edexcel.com/designandtechnology.com
	emerging technologies informs design decisions;	provide functionality to products and processes, including sensors and	<ul><li>thermosetting</li><li>polymers</li><li>2 The categorisation</li></ul>	
	considering contemporary and	control devices to respond to a variety of	of the types, properties and	
	potential future scenarios from different perspectives,	inputs, and devices to produce a range of outputs	structure of natural and manufactured timbers	
	such as ethics and the environment	The use of programmable components to embed	<ul> <li>Investigate and analyse the work of</li> </ul>	
	<ul> <li>How energy is generated and stored in order to choose and</li> </ul>	functionality into products in order to enhance and customise	past and present professionals and	
	use appropriate	their operation		

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	sources to make	• The categorisation of the	companies in order	
	products and power	-	to inform design	
		types, properties and structure of ferrous and		
	systems			
	Developments in	non-ferrous metals		
	modern and smart	· · · · · · · · · · · · · · · · · · ·		
	materials, composite	Mini GCSE project (T-Shirt		
	materials and	design, board game or gadget	1 <sup>st</sup> June – GCSE begins, with	
	technical textiles	holder using recyclable resources	contextual challenges	
		/ upcycling) Design and make	released and students begin	
		project for students to choose,	to select their preferred	
		incorporating branding design,	challenge to design and	
		design development, industry	make. This leads into the	
		making skills and CAD/CAM	Year 11 NEA.	
		development.		
Year 11	Design & make project – 50%	Design & Make project	Examination – 50% of	www.technologystudent.com
Graphics	of qualification. Students pick	completed, moderated and	qualification. Core content is	
	a contextual challenge	submitted. Revision on core	revisited and implemented	www.BBCbitesize.com
	provided by the exam board.	content is revisited from year 10.	into the teaching. Subject	
	Students will produce a	Revision is more focused on exam	specific content is covered	www.designtechnology.info/home
	project, based on their	style questions.	for the exam.	
	specialism, which consists of a	, ,	Section A: Core This section	www.design-technology.org
	portfolio and prototype.		is 40 marks and contains a	
			mixture of different question	www.mr-dt.com
	Part 1 – Investigate		styles, including open-	
	Part 2 – Design		response, graphical,	www.edexcel.com/designandtechnology.com
	Part 3- Make		calculation and extended-	
	Part 4 - Evaluate		open-response questions.	
			There will be 10 marks of	
			calculation questions in	
			Section A. Section B:	
			Material categories This	
			section is 60 marks and	
			contains a mixture of	

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	di	lifferent question styles,	
	in	ncluding open-response,	
	gı	raphical, calculation and	
	ex	extended-open-response	
	q	uestions. There will be 5	
	m	narks of calculation	
	q	uestions in Section B	

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