



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

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 Bobble Head Superhero: During this based on the theme of superheroes. In addition, stude enhance their drawings. Students der 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 skills and transferred by them using a subl that students can experience in a clas 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	· · · · · · · · · · · · · · · · · · ·	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 perspective • Isometric projection	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 Slogan design	Understanding complex net developments and design related to a theme of creating a chocolate box or perfume/aftershave box	www.technologystudent.com www.BBCbitesize.com www.designtechnology.info/home www.design-technology.org www.mr-dt.com





	 3D drawing from 2D shapes Mini-skills based project highlighting drawing skills related to products 	 Use of images and wording to gain personification Colour/shade/tone Analysing existing brands/logos CAD/CAM design a & development 	 Design development Branding / logo design Links to industrial machinery Use of CAD/CAM for design, development and construction. 	www.edexcel.com/designandtechnology.com
Year 10	Design and Technology core	Core content is continued	Core content is continued	www.technologystudent.com
Graphics	content: Learning key areas that are required for the GCSE exam and the non-examined	thorough the spring term.The functions of	through the summer term.The categorisation of	www.BBCbitesize.com
	assessment (project).	mechanical devices used to produce different sorts	the types, properties and structure of	www.designtechnology.info/home
	The impact of new	of movements, including	papers and boards	www.design-technology.org
	and emerging	the changing of	The categorisation of	
	technologies • How the critical	magnitude and the	the types, properties and structure of	<u>www.mr-dt.com</u>
	evaluation of new and emerging	 direction of forces How electronic systems provide functionality to 	thermoforming and thermosetting	www.edexcel.com/designandtechnology.com
	technologies informs design decisions;	products and processes, including sensors and	polymers2 The categorisation	
	considering contemporary and potential future	control devices to respond to a variety of inputs, and devices to	of the types, properties and structure of natural	
	scenarios from different perspectives,	produce a range of outputs	and manufactured timbers	
	such as ethics and the environment How energy is	 The use of programmable components to embed functionality into 	 Investigate and analyse the work of past and present 	
	generated and stored in order to choose and use appropriate	products in order to enhance and customise their operation	professionals and	





	sources to make	The categorisation of the	companies in order	
	products and power	types, properties and	to inform design	
	systems	structure of ferrous and		
	 Developments in 	non-ferrous metals		
	modern and smart			
	materials, composite	Mini GCSE project (T-Shirt		
	materials and technical textiles	design, board game or gadget holder using recyclable resources / upcycling) Design and make project for students to choose, incorporating branding design, design development, industry making skills and CAD/CAM development.	1 St June – GCSE begins, with contextual challenges released and students begin to select their preferred challenge to design and make. This leads into the Year 11 NEA.	
Year 11	Design & make project – 50%	Design & Make project	Examination – 50% of	www.technologystudent.com
Graphics	of qualification. Students pick a contextual challenge provided by the exam board.	completed, moderated and submitted. Revision on core content is revisited from year 10.	qualification. Core content is revisited and implemented into the teaching. Subject	www.BBCbitesize.com
	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	<u>www.mr-dt.com</u>
	Part 1 – Investigate		styles, including open-	
	Part 2 – Design		response, graphical,	www.edexcel.com/designandtechnology.com
	Part 4 Firelinate		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	





	different question styles,	
	including open-response,	
	graphical, calculation and	
	extended-open-response	
	questions. There will be 5	
	marks of calculation	
	questions in Section B	