

D&T - 7 Year Curriculum Plan



DMA = Design and Make Assignment - FPT = Focused Practical Task

Notes:

KS3 Product Design / Food - classes rotate at February Half-Term

KS3 Textiles / Art & Design - classes rotate at February Half-Term - see the Art & Design Curriculum Plan

KS3 Product Design & KS4 3D Design - actual sequence of delivery will vary due to resourcing and or timetabling. For example while some Y8 classes are working with Robotics, others will be working with Electronics, while one Y10 class are working with metals another will be working with card.

	KS3	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	Product Design Food	Product Design DMA: Tealight Holder	Product Design DMA: Tealight Holder	Product Design FPT: LEGO Mechanisms FPT: LED Torch FPT: Structures including Bridges	Food Theory Health and safety Healthy eating and nutrition Practical Fruit preparation and cooking. Cooking pasta Using the oven.	Food Theory. Food safety and hygiene Practical Safe preparation and cooking of meat. Making a sauce.	Food Theory Health and safety Adapting dishes Practical Vegetable preparation and cooking Cereal bar
7	Textiles	Textiles FPT: Weaving	Textiles FPT: Stitching Techniques	Textiles DMA: Creative Creature	Art & Design See Art & Design Curriculum Plan	Art & Design See Art & Design Curriculum Plan	Art & Design See Art & Design Curriculum Plan

8	Product Design Food	Product Design DMA: Pewter Casting CAD/CAM	Product Design FPT: LEGO Robotics FPT: Night Light Electronics	Product Design FPT: Thermoplastics and Plastics Forming	Food Theory Food isssues Practical Safe preparation and cooking of vegetables and rice. Adapting recipes, using the oven.	Food Theory Healthy eating and nutrition. Practical Bread dough forming and shaping. Making pasta.	Food Theory Food safety (Meat) Practical Cooking safely with meat. Alternative proteins.
8	Textiles	Textiles DMA: Bag	Textiles DMA: Bag	Textiles DMA: Bag	Art & Design See Art & Design Curriculum Plan	Art & Design See Art & Design Curriculum Plan	Art & Design See Art & Design Curriculum Plan
9	Product Design Food	Product Design DMA: Fold Lamp	Product Design DMA: Fold Lamp	Product Design FPT: Trebuchet Linkages/Levers Build/Test/Analyse	Food Meatballs and sauce. Timeplanning and nutrition. Sweet and sour. Sauces and gelatinisation. Lasagne.	Food Mini pies & Pastry, Function of ingredients. Cheesecake. Modifying recipes, gelation, high risk food, presentation. Focaccia bread. Yeast investigation.	Food Enchiladas. Food hygiene and safety. Planning and making own Multicultural savoury main course dish. Evaluation of dish. Potato Investigation
9	Textiles	Textiles FPT: Samples - Printing, Dyeing, Batik, Slashing	Textiles FPT: Samples Continued - Printing, Dyeing, Batik, Slashing	Textiles DMA: 3D Construction	Art & Design See Art & Design Curriculum Plan	Art & Design See Art & Design Curriculum Plan	Art & Design See Art & Design Curriculum Plan

	KS4	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
10	GCSE 3D Design	GCSE 3D Design Mini DMA: Designer Research Skills, Creativity with Wood - Sample 3D Structures Continues Throughout Design Past & Present Design in History/Culture	GCSE 3D Design DMA: Hanger Project (or other TBC) - Research, Analysis FPT: Metal Samples	GCSE 3D Design DMA: Hanger Project (or other TBC) - Modelling, Sketching, Visual Investigation, Design Development	GCSE 3D Design DMA: Hanger Project (or other TBC) - Final Designs and Metalworking Realization FPT: Modelling skills in Corrugated Card	GCSE 3D Design FPT: Timber Joints and Applied Finishes FPT: Machinery Exercises - e.g. Milling Machine, Lathe FPT: Polymers - Lamination, Forming, Moulding	GCSE 3D Design DMA: Automata or other TBC FPT: Mechanisms
		 3D Drawing Exercises CAD Skills Visual Elements e.g. Colour, Line, Scale 					
10	GCSE Textiles	GCSE Textiles Teacher Led Take own images Observational Drawings using a range of media Printing Methods including: PolyPlate Printing, Mono Printing, Gelli Plate Printing and Stencilling and CAD Stenciling. Artist Research Sewing Machine Introduction	Under the Sea - Combining techniques learnt together to create a mini outcome Use the influence of Artist Research and analysis to inspire work and create a response to the artist.	Under the Sea To continue to develop research skills and techniques more independently to create a final response either a shirt or a corset that combines all techniques learnt.	Begin a sustained personal project topic to be decided by the teacher.	_	to contribute to Component 1

10	Engineering	Cambridge National Engineering	Cambridge National Engineering	Cambridge National Engineering	Cambridge National Engineering	Cambridge National Engineering	Cambridge National Engineering
		Engineering principles RO14 Reading engineering drawings Production Planning Quality Control One-Off Manufacture RO15 Practical Bottle opener keyring One-off manufacture production - hand tools	Engineering principles RO14 Materials and properties Health & Safety One-Off Manufacture RO15 Practical Sliding bevel Clamp One-off manufacture production - machines	Engineering principles RO14 Manufacturing Processes One-Off Manufacture RO15 Practical Sliding bevel Clamp One-off manufacture production - machines	Engineering principles RO14 Manufacturing Processes One-Off Manufacture RO15 NEA (working on)	Engineering principles RO14 Manufacturing Processes One-Off Manufacture RO15 NEA (cont)	Engineering principles RO14 Manufacturing Processes Mock exam One-Off Manufacture RO15 NEA (assessment)
10	GCSE Food	GCSE Food Introduction to Year 10. Commodity - Fruit and Vegetables.	GCSE Food Commodity - Milk, cheese and yoghurt.	GCSE Food Commodity - Cereals, flour, bread and pasta.	GCSE Food Commodity - Meat, fish, poultry, eggs.	GCSE Food Commodity - Butter, oils, margarine, sugar syrup.	GCSE Food Commodity - Soya, tofu, beans, nuts, seeds.
11	GCSE 3D Design	GCSE 3D Significant Project (Autom part of Component 1 - The	nata or other TBC) as	GCSE 3D Design Component 2 NEA: Externally Set Assignment			
11	GCSE Textiles	GCSE Te Student led project to cor		GCSE Textiles Component 2 NEA: Externally Set Assignment			ent
11	Engineering	Cambridge National Engineering	Cambridge National Engineering	Cambridge National Engineering	Cambridge National Engineering	Engineerin	lational Engineering ng principles RO14 Revision

		Engineering principles RO14 Manufacturing processes (Revision) Scale and manufacture Manufacture in Quantity RO16 Scales of manufacture Productions aids (jigs) Sequencing, SoP's Operating parameters CAD/CAM Practical Mobile phone holder (laser)	Engineering principles RO14 Influence of scale on manufacture Quality systems Manufacture in Quantity RO16 Practical Pen holder (3D Print)	Inventory management/Lean Manufacture in Quantity RO16 NEA (working on)	Engineering principles RO14 Globalisation Manufacture in Quantity RO16 NEA (cont)	Manufactu	re in Quantity RO16 (assessment)
11	11 GCSE Food	 GCSE Food Introduction to year 11 NEA 1 investgation project. Range of practicals time permitting to extend year 10 practical skills. 	GCSE Food • NEA 2 research and planning of practical exam dishes. Begin practical trials for exam.	 GCSE Food Practical trials of planned dishes for the practical exam. Evaluating dishes. Sensory testing. Revise theory topics. 	GCSE Food Practical Assessments and Evaluation Exam revision	GCSE Food Exam revision	GCSE Food Exam revision

	KS5	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
12	A'Level 3D Design	 Drawing and Mode 	A'Level 3D Design Resistant Materials & Pro Iling Skills - Design Develo ency in 2D and 3D CAD So ntext	opment	A'Level 3D Design Component 1 - Personal Investigation		
12	A'Level Textiles	A'Level Textiles Teacher Led Take own images Observational Drawings using a range of media Printing Methods including: PolyPlate Printing, Mono Printing, Gelli Plate Printing and Stencilling and CAD Stenciling. Artist Research Sewing Machine Introduction	Under the Sea - Combining techniques learnt together to create a mini outcome Use the influence of Artist Research and analysis to inspire work and create a response to the artist.	Under the Sea To continue to develop research skills and techniques more independently to create a final response either a shirt or a corset that combines all techniques learnt.	Begin a sustained personal project topic to be decided by the teacher.	A'Level Textiles Component 1 Personal Investigation	
13	A'Level	A'Level 3 Component 1 - Pers	•	A'Level 3D Design Component 2 - Externally Set Assignment			
13	3D Design A'Level Textiles	A'Level 7 Compor Personal Inv	nent 1	A'Level Textiles Component 2 - Externally Set Assignment			