

Subject: D&T KS3

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Key Stage	Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
		Textiles What are textiles used for? Source of raw materials for natural and man-made textiles including sustainability. Fabric construction; spinning; weaving; knitted and non-woven textiles.	Textiles Felt making, patchwork, quilting, embroidery, using a sewing machine, measuring, marking and cutting fabrics.	Textiles Mini design and make project: Tie-dye bag	Textiles What are textiles used for? Source of raw materials for natural and man-made textiles including sustainability. Fabric construction; spinning; weaving; knitted and non-woven textiles.	Textiles Felt making, patchwork, quilting, embroidery, using a sewing machine, measuring, marking and cutting fabrics.	Textiles Mini design and make project: Tie-dye bag
KS3	Year 8 Five lessons per fortnight – rotating through the specialist areas - Food, Textiles, Graphics and Resistant Materials (9 week rotation)	Graphics Using biomimicry and mathematical principles of symmetry, rotation and tessellation as inspiration to design, develop and model the lid of a box (base to be made in RM) using 2D design further skills and laser cutting.	Graphics Using biomimicry and mathematical principles of symmetry, rotation and tessellation as inspiration to design, develop and model the lid of a box (base to be made in RM) using 2D design further skills and laser cutting.	Graphics Using biomimicry and mathematical principles of symmetry, rotation and tessellation as inspiration to design, develop and model the lid of a box (base to be made in RM) using 2D design further skills and laser cutting.	Graphics Using biomimicry and mathematical principles of symmetry, rotation and tessellation as inspiration to design, develop and model the lid of a box (base to be made in RM) using 2D design further skills and laser cutting.	Graphics Using biomimicry and mathematical principles of symmetry, rotation and tessellation as inspiration to design, develop and model the lid of a box (base to be made in RM) 2D design further skills and laser cutting.	Graphics Using biomimicry and mathematical principles of symmetry, rotation and tessellation as inspiration to design, develop and model the lid of a box (base to be made in RM) 2D design further skills and laser cutting.
		or RM - Practical skills and knowledge of workshop tools and equipment. Make an open box in preparation for the lid from graphics.	or RM - Motion - levers, linkages and cranks mechanisms. Electronic - Inputs/outputs and logic gates.	or RM - Practical skills and knowledge of workshop tools and equipment. Make an open box in preparation for the lid from graphics.	or RM - Motion - levers, linkages and cranks mechanisms. Electronic - Inputs/outputs and logic gates.	or RM - Practical skills and knowledge of workshop tools and equipment. Make an open box in preparation for the lid from graphics.	or RM - Motion - levers, linkages and cranks mechanisms. Electronic - Inputs/outputs and logic gates.
		or Food & Nutrition – Meat safety, Staples,	or Food & Nutrition – Meat safety, Staples,	or Food & Nutrition – Meat safety,	or Food & Nutrition – Meat safety, Staples,	or Food & Nutrition – Meat safety, Staples,	or Food & Nutrition – Meat safety, Staples,

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Key Stage	Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
		fastenings. Developing CAD skills using 2D design. CAM vinyl cutting. Developing machine sewing skills making a zipped purse and inserting a zip.	fastenings. Developing CAD skills using 2D design. CAM vinyl cutting. Developing machine sewing skills making a zipped purse and inserting a zip.	fastenings. Developing CAD skills using 2D design. CAM vinyl cutting. Developing machine sewing skills making a zipped purse and inserting a zip.	fastenings. Developing CAD skills using 2D design. CAM vinyl cutting. Developing machine sewing skills making a zipped purse and inserting a zip.	fastenings. Developing CAD skills using 2D design. CAM vinyl cutting. Developing machine sewing skills making a zipped purse and inserting a zip.	fastenings. Developing CAD skills using 2D design. CAM vinyl cutting. Developing machine sewing skills making a zipped purse and inserting a zip.

Subject: FOOD & NUTRITION

Key Stage	Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
KS4	Year 10	Practical skills Knife skills.Bread, Leavened and unleavened,Pastry making	Practical skills Knife skills, pasta, sauces, cakes, christmas cooking	Practical skills Choux Pastry, knife skills. meat cooking.	Practical skills Knife skills,Filleting fish,puff pastry	Practical skills Knife skills, multi cultural dishes	Practical skills Knife skills, Mouses, chilled desserts.
		Nutrition, Health and Food Science Eatwell guide Macronutrients Chemical and physical properties of Nutrients. e.g Proteins Micronutrients Nutrition throughout different life stages	Nutrition, Health and Food Science Food Safety & hygiene Enzymes Experiment.Enzy mic browning Food poisoning Microorganisms Meat & Fish Structure/Nutritional value/Tenderising/ Cuts/Preparing	Nutrition, Health and Food Science Functions of different ingredients Experiment Sauces Transfer of heat & cooking of food Experiment. Plasticity of fats Conduction convection Radiation	Nutrition, Health and Food Science Food Choice Foods from different cultures Special Dietary Needs Food allergies and intolerances	Nutrition, Health and Food Science Food provenance Additives Food processing Yoghurt making Food packaging Labelling	Nutrition, Health and Food Science Food preservation Different methods and effect on nutritional value End of year exam Practice Practical exam

		Bread making Gluten Yeast	Cake making: Functions of basic ingredients,	Effect of cooking on sensory characteristics of food.			
	Year 11	NEA 1 A written investigation chosen from a selection set by the exam board (1,500–2,000 words) to show understanding of the working characteristics, functional and chemical properties of ingredients	NEA 2 An in-depth study into an area of Food and Nutrition of particular interest leading up to a 3-hour practical exam follows	NEA 2 An in-depth study into an area of Food and Nutrition of particular interest leading up to a 3-hour practical exam follows	Revision/preparing for the written paper	Revision/preparing for the written paper	Revision/preparing for the written paper

Subject: D&T KS4 – Product Design

Key Stage	Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
KS4	Year 10	<p>Specialist theory: Selection of materials, sources and origins, stock forms, Ecological concerns and equipment. Joints, material management, tolerances,</p> <p>Design movements and designers.</p> <p>Drawing skills: Freehand, Orthographic, one and two point perspective.</p> <p>Practical skills: Test pieces using hand tools and machinery. Decoration techniques.</p>	<p>Specialist theory: Health and Safety, Forces, Quality, Processes and forming. Components. Knock down fittings. Working drawings. Schematic. Specialist tools.</p> <p>Revision Card Box - Working with timber skills: Various joints. Use of Laser cutter for decoration.</p>	<p>Communication skills: Design presentation. Freehand, layout, Isometric, Third angle.</p> <p>Mini project: Children's Furniture</p> <p>Specification covered: Research skills. Modelling skills. Commercial processes Product analysis, identifying clients, materials, manufacturing techniques. Ecological and social footprint. Scales of manufacture.</p>	<p>Mini project: Children's Furniture</p> <p>Communication skills: Design presentation. Freehand, layout, Isometric, Third angle.</p> <p>Specification covered: New and Emerging Technologies. Smart materials.</p>	<p>Theory: - Energy. Developing new materials. Systems. Mechanisms - Linkages, gears, chain and sprocket, pulleys and belts.</p> <p>Wood forming: Spatula</p>	<p>NEA (Non- Exam Assessment) A design & make project consisting of a folder of approximately 20 x A3 pages and a final prototype. The examination board (AQA) set three different contexts each year. Students choose one. Worth 50% of the GCSE.</p>
	Year 11	NEA continues	NEA continues	NEA continues until February	Core theory on all material areas Designing and making principles preparing for the exam	Core theory on all material areas Designing and making principles preparing for the exam	Optional revision sessions

Subject: D&T KS4 - Textiles

Key Stage	Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
KS4	Year 10	<p>Specialist textiles foundation skills and knowledge - practical and theory based.</p> <p>Sources and origins, fabric construction, joining fabrics and properties of materials.</p> <p>Make a MorsBag to apply skills and knowledge, foster independence, problem solving and time management.</p> <p>Assessment 1</p>	<p>Specialist textiles foundation skills and knowledge - practical and theory based.</p> <p>Victoria & Albert Museum trip</p> <p>Forces and stresses,, the work of others, surface treatments and finishes, commercial processes, scales of manufacture, shaping and forming.</p> <p>Assessment 2</p>	<p>Environmental and social issues, new and emerging technologies, e-textiles.</p> <p>Wool4school competition</p> <p>Assessment 3</p>	<p>Wool4school competition</p> <p>Mini NEA - sports bra</p> <p>Designing and making principles</p> <p>CAD/CAM embroidery</p> <p>Dye sublimation printing</p> <p>Assessment 4</p>	<p>Mini NEA - sports bra</p> <p>Designing and making principles</p> <p>Communication of design ideas</p> <p>Investigating using primary and secondary data</p> <p>Assessment 5</p>	<p>End of Year assessment</p> <p>New Designers trip</p> <p>NEA launch (Non-Exam Assessment)</p> <p>A design & make project consisting of a folder of 20 x A3 pages and a prototype. The examination board (AQA) set three different contexts each year. Students choose one. Worth 50% of the GCSE.</p> <p>A - Analysing the context and identifying a target user</p>
	Year 11	<p>NEA</p> <p>B Writing a design brief and specification</p> <p>C Generating ideas</p>	<p>Mock exam</p> <p>NEA</p> <p>D Development of ideas</p>	<p>NEA</p> <p>E Realising design ideas</p> <p>F Testing and evaluating</p> <p>GCSE NEA showcase</p>	<p>Preparing for the exam</p> <p>Core theory on all material areas</p> <p>Designing and making principles</p>	<p>Preparing for the exam</p> <p>Core theory on all material areas</p> <p>Designing and making principles</p>	<p>Revision sessions</p>

Subject: FASHION

Key Stage	Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
KS5	Year 12	<p>Understanding of the A Level course, assessment criteria, projects etc. Fashion Inspired by Architecture project</p> <p>Drawing skills and printmaking</p>	<p>Virtual Fashion Trip to Paris - using a variety of Parisian sources to create textiles samples, artwork and fashion designs.</p> <p>Understand how inspiration can come from looking at past fashions.</p>	<p>Westwood inspired Corset project</p> <p>Mock Exam introduction Designer / artist research Moodboard Further Experimentation and Fashion design ideas</p>	Toile development Final Design Idea	<p>Understand how inspiration can come from looking at past fashions.</p> <ul style="list-style-type: none"> • Fashion Design • Pattern cutting • Print design 	<p>Commence the Personal Investigation (a major coursework project worth 60% of the Final A Level):</p> <ul style="list-style-type: none"> • Primary and Secondary research • Experimenting with textile techniques to develop the theme
	Year 13	<p>Primary and Secondary research. Designer/artist research.</p> <p>Experimentation</p> <p>Related Study (an extended piece of writing of approx. 1500-3000 words, that relates to the theme of the Personal Investigation)- one lesson a week throughout the Autumn Term</p>	<p>Related study continues</p> <p>Completing the final garment for the Personal Investigation</p>	<p>Completing Personal Investigation</p> <p>Exam - Primary and Secondary research. Designer/artist research. Experimentation</p>	Toile development. Final design idea		