

DT Curriculum Map

What do students learn?	Why?	Tier 3 keywords	Threshold concepts	Literacy	Assessment
This varies from school to school but often					
very little DT					
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What do students learn?	Why?	Tier 3 keywords	Threshold concepts	Literacy	Assessment
There are five 7-week projects:	We aim to give pupils an introduction to DT and the variety of subjects we offer.	Research Design	Analyse Compare	Reading Bell work for all lessons	Term 3 DOYA MCQ
Product Design: learning about tools in the	variety of subjects we offer.	Manufacture	Evaluate	is literacy-based	Each module is
workshop, health and safety	This is an opportunity for pupils to gain an	Rendering	Communicate	is literacy-based	assessed using the
workshop, health and surety	understanding of 'real life' practical skills. Pupils will	Healthy	Communicate	Writing	DOYA grading for
Electronics: learning to construct a circuit	be learning through practical but also theory	Safety		There is a piece of	Design, Make and
and manufacturing plan	elements to enable them to become confident in the	Techniques		extended writing for	Evaluate every
	workshop, kitchen and design room.	·		each of the 5 projects	rotation.
Graphics: learning the art of presentation					Each area will focus on
through rendering skills and technical	Health and Safety is an important part of the DT			Oracy	two of these criteria
drawing	curriculum so pupils must have an understanding of			Pupils will answer	
	safety rules and expectations.			questions in full	Term 6 DOYA MCQ
Textiles: learning to use the sewing machine				sentences during	
and decorative techniques whilst following	Pupils will be encouraged to improve their design			discussion work and	
the design process	skills through practice and demonstration. Promoting			encouraged to read out	
Food: learning key skills in the kitchen	flair and creativity enabling them to have high			loud where appropriate	
including knife skills, mixing, baking, hob	expectations.				
work, food hygiene and routines of the	In Food Technology students will come to Hanham				
kitchen. Healthy living and food safety and	with a variety of different skills set so this year is to				
equipment.	access their level of ability and aptitude for the				
	subject. This will be mainly practical skills and an				
	introduction into 'Healthy eating and nutrition'.				
What do students learn?	Why?	Tier 3 keywords	Threshold concepts	Literacy	Assessment
Product Design: learn to construct finger	We aim to develop skills, knowledge and DT	Construct	Manipulate	Reading	Term 3 DOYA MCQ
joints and apply finishing techniques.	techniques from year 7. We also introduce the social	Annotate	Develop	Bell work for all lessons	
000/0004	and moral aspects of DT.	Specification	Investigate	is literacy-based	Each module is
CAD/CAM: Learn to use 2D design to	Burdle will a sed to esta second as altitle to destanting	Promote	Evaluate	NATural un un	assessed using the
manipulate designs to create jewellery	Pupils will need to gain complex skills in designing,	Blending		Writing There is a piece of	DOYA grading for
working from a designer.	making and evaluation. Pupils will be developing confidence and resilience through practical work but	Shaping Finishing		There is a piece of extended writing for	Design, Make and Evaluate every
Granhics: Investigate and develop	- ·	i iiiisiiiiig		_	rotation
	·			cach of the 5 projects	Each area will focus on
merenanaise to promote restivuis.	• •			Oracy	two of these criteria
Textiles: Investigate textiles from around					the or these oriteria
the world. Learn the use of ACCESSFM when				questions in full	
Graphics: Investigate and develop merchandise to promote festivals. Textiles: Investigate textiles from around the world. Learn the use of ACCESSFM when	also theory elements to enable them to become an established learner in the workshop, kitchen and design room.	riilisiiilig		each of the 5 projects Oracy Pupils will answer	

	producing extended writing. Develop knowledge on the machines by inserting a zip. Food: Students will be learning about Special diets including ages, allergies, intolerance, religion, vegetarians and vegans. They will practice and develop skills in blending, shaping and assembly, dough, knife skills, Frying, baking, and making sauces.	Pupils will be provided with a taster of the GCSE terminology when producing extended writing. Pupils will be encouraged to improve their design skills through practice and demonstration. Promoting flair and creativity enabling them to link design to wider changes in society. In Food Technology students will be able to understand the reasons behind people's choices of foods but focusing mainly on medical, moral and religious reasons. This will support their learning and understanding in preparation for the GCSE. They will be able to develop their literacy skills by completing a research and answer question based around the GCSE curriculum.			sentences during discussion work and encouraged to read out loud where appropriate	Term 6 DOYA MCQ
Year	What do students learn?	Why?	Tier 3 keywords	Threshold concepts	Literacy	Assessment
9	Design Technology Product Design Clock Project – Designers, wood and polymers Textiles Phone holder – fibres, fabric and construction Automata – learning about motion Environmental project – 6Rs and social impact Collaboration project Textiles Cushion/ Bag Sewing Pouch Pop up card – theory on paper and board Keyring using smart materials and woods Shorts – Designer and environment Toys – client based	Design and Technology Pupils will be studying the CORE aspects of the specification through practical and theory to gain a broad knowledge of all the key materials within DT. Pupils need to be developing iterative design processes in preparation for the NEA. Each project allows students to learn through experience. Pupils need to understand the environmental impact of design and different design processes. To gain knowledge and inspiration from the work of others is a key aspect towards both the theory and NEA.	Nutritional Food science Designers Sustainability Social Aesthetics Ergonomics Anthropometrics Thermosetting Thermoforming Fibres Fabrics	Improve Impact Iteration Modelling	Reading Bell work is literacy based or retrieval Writing Extended writing in each project. Research, Specification, Annotations, Planning, Evaluation. Oracy Pupils will answer questions in full sentences during discussion work and encouraged to read out loud where appropriate	Y9 PPE Year 9 Assessment week in term 6 GCSE Specification assessment Term 2 and 4
	 Food Students will be learning the coursework section of the GCSE. Food Science – Investigation into the working characteristics of ingredients. Nutritional analysis – Understanding the contents of recipes and being able to improve and analyse the value of ingredients. 	Food This will be an introduction into the GCSE: Food Preparation and Nutrition. This year will focus on the coursework and the theory to support this. Students will be expected to present work in a portfolio manner with reference to food science, nutritional analysis and food provenance. This will be supporting 50% of the GCSE and will provide the				

	 Food provenance – Looking closely to a range of countries and understanding the route of methods of cooking, farming and traditional ingredients. NEA 1 & NEA 2 – 3 practise pieces of both. 	students will a resource to refer to for their final pieces of coursework.				
Year	What do students learn?	Why?	Tier 3 keywords	Threshold concepts	Literacy	Assessment
	Design and Technology	Design and Technology	Food safety	Testing	Reading	Term 6 Y10 PPE
10	Product Design	Pupils will be studying the CORE aspects of the	Food Spoilage	Iteration	Bell work revision	100120112
	Key skills – slot toy animals	specification through practical and theory to gain a	Food Science	Developing	glossary cards produced	Practice NEA
	• Joints	broad knowledge of all the key materials within DT.	Market research		once a week.	assessment using AQA
	Resin and polymers	Pupils will learn specific key materials and systems	Product analysis			specification
	Laser cutting exercises	which will be covered through theory lessons and	Planned			
	Upcycling and sustainability	reinforced through exam questions. A practice NEA is essential to cover all the design and	obsolescence Finite resources		Writing Theory lesson once a	Investigating and research.
	Practice NEA – Lamp Project and	make elements of the specification.	Production methods		week.	Design Brief and
	educational aid	make elements of the specification.	Disassembling		Use of exam guestions	Specification.
	Textiles		2.00000		for retrieval practice and	Initial design ideas.
	Childrens clothing – Practice NEA				extended writing termly	Development of design
	Plastics – container manufacture –					ideas.
	sustainability				Oracy	Prototype
	Production Systems				Pupils will answer	manufacture.
	Begin NEA – Context given June 1st				questions in full sentences during	Testing and evaluation.
					discussion work and encouraged to read out	
	Food	Food			loud where appropriate	
	Students will be learning the theory section	Students will need to learn the theory content of the			loud where appropriate	
	of the GCSE.	course to support and develop their understanding				
	Food Science – Coagulation,	of ingredients and cooking methods for their				
	denaturation, enzymic browning,	coursework and the exam. The Schemes of work will				
	aeration, caramelisation etc	allow students to further develop their understand				
	 Cooking methods – convection, 	of the working characteristics of ingredients whilst being able to understand how these can be changed				
	conduction, radiation	by heat, temperature, PH level, and other				
	Food spoilage – micro organisms,	environmental factors. Students will be expected to				
	bacteria, pathogens	write essay style exam questions as well as a variety				
	Food safety – temperatures, dates, high risk foods	of fact-based short answers.				
	high risk foods					
Year	What do students learn?	Why?	Tier 3 keywords	Threshold concepts	Literacy	Assessment

11	Design Technology – Product Design and	To ensure pupils have specific knowledge of the DT	Prototype	Iteration	Reading	Term 2 Y11 PPE
	Textiles	specification.	Manufacturing	Evaluating	Bell work revision	Feedback sheet for
			Specification	Improving	glossary cards produced	NEA
	1 Theory lesson a week focus on Core skills		Production Aid	Testing	once a week.	
	20% of paper and Specific Materials 30 % of		Quality Control			Covering
	paper in line with NEA. 50% design and					Investigating and
	make.				Writing	research.
					Theory lesson once a	Design Brief and
	NEA - Context given by AQA				week.	Specification.
	Pupils will follow each specification point	The NEA is 50% of the overall grade. The NEA is			Use of exam questions	Initial design ideas.
	using fixed deadline for each criteria.	marked out of 100. Students will need to complete			for retrieval practice and	Development of design
	Identifying and exploring contextual	the coursework to enable completion of GCSE			extended writing termly	ideas.
	challenge.					Prototype
	Design brief and Specification				Oracy	manufacture.
	Initial design ideas				Pupils will answer	Testing and evaluation
	Development of designs				questions in full	
	Modelling and manufacture				sentences during	
	Evaluation and testing				discussion work and	Term 3 Y11 PPE
					encouraged to read out	NEA 50% assessment
	Food Preparation & Nutrition: Students will	Students will need to complete both pieces of			loud where appropriate	
	be completing NEA 1 15% & NEA 2 35%	coursework to enable completion of the GCSE.				
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