## **Curriculum Plan**

Department: Design Technology Vision statement: "Within the disciplines of Design and Technology we aim to provide an underpinning of all curriculum areas encouraging independence leading to successful Global Citizens" Analytical writing, evaluative writing, descriptive writing, instructive language. Measuring and weighing, proportion and graphs, analysis of data, volume, materials analysis, the work of other designers (historical context). Science of food, material properties. IT development of ideas, presenting work, research and analysis, CAD CAM. Self-directed learning, independent outcomes, individual outcomes, teacher self and peer evaluation. Designing and the environment, ethical decisions, food providence, finite and non-finite resources, cultural respect, food and packaging legislation. Strapline: Design, develop, make, evaluate. **Curriculum Story:** We increase students' knowledge and understanding of materials and processes by practising practical and designing skills on a spiral curriculum. Projects are planned to be knowledge rich and develop designing and making skills. Students experience working with a wide range of tools and materials. Students have the opportunity to look at the work of other designers. Students have the opportunity to create personal responses when give a set design brief. Projects are well planned with support materials to engage all students. Skills Developed: All projects are underpinned with the following: Understanding a design brief. Responding to a design brief. Creating initial ideas. Developing ideas. CAD/CAM. Making high quality outcomes. Review and evaluate final outcomes. Students also gain and understanding of material/ingredient provenance. Working properties of materials/ingredients. Man made and natural timbers.

Year 7 undertake a ro	tation consisting of two <sup>-</sup>	18 week projects during	the academic year.			
Topics	Why we teach this	Links to last topic	Links to future topics	Key skills developed	Cultural capital opportunities	Links to whole school curriculum
Health and safety in the workshop.	We teach this to ensure all students are aware of the health and safety expectations of working in a design and technology workshop.	N/A	Health and safety is integral in keeping students safe in the DT workshop. This is revisited at the start of every project.	How to act responsibly in the DT workshop.		
Understanding a design brief.	A design brief is an integral part of Design and Technology projects. It is the foundation of all projects from KS3 through to KS4.	N/A	All projects start with a design brief. These build in complexity in future projects.	How to understand and break down a design brief.		
Writing a design brief.	Writing their own design brief enables students to understand the expectations of the project. This sets expectations for future projects.	N/A	Students will be expected to write individual design briefs in future projects.	Analytical skills. Design brief writing skills.		
Researching existing products.	This is taught to enable students to gain an understanding of the work of other designers. This research help in the design of their own products.	N/A	Product analysis is undertaken in every Dt project.	Analytical skills are developed enabling students' to respond to the work of other designers.		
Natural timbers.	Students will gain an understanding of where timber comes from and the differences between hard and soft woods.	N.A	During years 7,8 and 9 students will gain knowledge of a range of timbers. In year 7 the focus is natural timbers, year 8 focus on man-made timbers with	Students will gain a good understanding of the provenance of different types of woods and timbers, costing and common uses.		

			year 9 focussing on		
			metals and alloys.		
Tools and their uses.	This is taught to enable	N/A	Students will use a wide	A good understanding	
	students to understand		range of tools and	of tools and their uses.	
	the name and uses of		machinery when	Development od DT	
	specific tools we use in		making their final	terms and vocabulary.	
	DT. It also covers the		outcomes. Year 7 focus	A good understanding	
	looking after and		on hand tools whereas	of how to maintain	
	maintenance of tools.		year 8 and 9 introduce a	tools.	
			wider range of hand	The working parts of	
			tools as well as	tools.	
			machinery.		
Initial design ideas.	This is taught to enable	N/A	Generating initial ideas	Creativity.	
	students to develop a		is generic throughout	Drawing techniques.	
	range of design ideas. It		the DT curriculum at all	Communication of	
	also helps with the		key stages. Drawing	ideas.	
	avoidance of design		techniques are an		
	fixation.		integral part of the		
			design process.		
Developing design	This ism taught to	N/A	Developing initial ideas	Analysis of existing	
ideas – including	enable students to		is generic throughout	ideas through	
3D drawing.	develop the skills to		the DT curriculum at all	annotation.	
ob uruwing.	develop initial ideas into		key stages. Drawing	How to change and	
	a final design solution. It		techniques are an	developing a design	
	covers an range of		integral part of the	idea.	
	drawing skills including		design process. Drawing	How to refine ideas.	
	drawing in 3D to		in 3D enables students	Collaborative design.	
	communicate ideas.		to successfully	C	
			communicate their		
			design ideas.		
Making final	We teach this to enable	N/A	Students are expected	Measuring and	
outcome.	students to develop	,	to make a final outcome	proportion.	
outcome.	their making skills. They		in every DT project.	The manipulation of	
	are encouraged to make		These build in	hand tools and	
	a well made individual		complexity in year 8,9	materials.	
	response which meets		and KS4.	The working properties	
	the design brief.			of timber.	
				Finishing techniques.	
Testing and	This is taught to enable	N/A	Testing and evaluation is	How to analyse the	
evaluation.	students develop the		an integral part of the	success of their	
	skills to be able to test		DT curriculum. It is	product.	
	and evaluate the			p. 000000	

success of a product. It	included in every	Comparing final	
also develops critical	project.	outcome to design brief.	
thinking and data		Understanding and	
analysis through		analysis of peer	
evaluation.		feedback.	
		Analysis of data.	
		Responding to data	
		analysis.	

Year 8 undertake a rot	tation consisting of two <sup>-</sup>	18 week projects during	the academic year.			
Topics	Why we teach this	Links to last topic	Links to future topics	Key skills developed	Cultural capital opportunities	Links to whole school curriculum
Health and safety in the workshop.	We teach this to ensure all students are aware of the health and safety expectations of working in a design and technology workshop.	Students will do a refresher of health and safety protocols covered in year 7	Health and safety is integral in keeping students safe in the DT workshop. This is revisited at the start of every project.	How to act responsibly in the DT workshop.		
Understanding a design brief.	A design brief is an integral part of Design and Technology projects. It is the foundation of all projects from KS3 through to KS4.	Students will be given a more in depth design brief than in year 7 with a more client centred focus.	All projects start with a design brief. These build in complexity in future projects.	How to understand and break down a design brief.		
Writing a design brief.	Writing their own design brief enables students to understand the expectations of the project. This sets expectations for future projects.	Reference to brief writing in year 7 with an emphasis on client focussed designing.	Students will be expected to write individual design briefs in future projects.	Analytical skills. Design brief writing skills.		
Researching existing products.	This is taught to enable students to gain an understanding of the work of other designers. This research help in the design of their own products.	References made to product analysis in year 7 with an emphasis on more in-depth analysis. Using ACESSFM to analyse a product.	Product analysis is undertaken in every DT project.	Analytical skills are developed enabling students' to respond to the work of other designers. Using the work of other designers as inspiration.		
Man made timbers.	Students will gain an understanding of the production techniques involved in manufacturing man- made timbers.	References made to natural timbers and the introduction of the manufacture of man- made timbers.	During years 7,8 and 9 students will gain knowledge of a range of timbers. In year 7 the focus is natural timbers, year 8 focus on man- made timbers with year 9 focussing on metals and alloys.	Students will gain a good understanding of the provenance of different types of woods and timbers, costing and common uses.		

Tools and their uses.	This is taught to enable students to understand the name and uses of specific tools we use in DT. It also covers the looking after and maintenance of tools.	References made to the tools used in previous project and the introduction of a wider range of tools and machinery.	Students will use a wide range of tools and machinery when making their final outcomes. Year 7 focus on hand tools whereas year 8 and 9 introduce a wider range of hand tools as well as machinery.	A good understanding of tools and their uses. Development od DT terms and vocabulary. A good understanding of how to maintain tools. The working parts of tools. The safe operation od DT workshop machinery.	
Initial design ideas.	This is taught to enable students to develop a range of design ideas. It also helps with the avoidance of design fixation.	References made to the drawing techniques learnt in year 7.	Generating initial ideas is generic throughout the DT curriculum at all key stages. Drawing techniques are an integral part of the design process.	Creativity. Drawing techniques. Communication of ideas.	
Developing design ideas – including 3D drawing.	This ism taught to enable students to develop the skills to develop initial ideas into a final design solution. It covers an range of drawing skills including drawing in 3D to communicate ideas.	References made to the development skills taught in year 7 with a greater emphasis on accuracy and dimesion.	Developing initial ideas is generic throughout the DT curriculum at all key stages. Drawing techniques are an integral part of the design process. Drawing in 3D enables students to successfully communicate their design ideas.	Analysis of existing ideas through annotation. How to change and developing a design idea. How to refine ideas. Collaborative design.	
Making final outcome.	We teach this to enable students to develop their making skills. They are encouraged to make a well made individual response which meets the design brief.	Revisit of skills taught in year 7. Manipulation of tools to create a wider range of components.	Students are expected to make a final outcome in every DT project. These build in complexity in year 8,9 and KS4.	Measuring and proportion. The manipulation of hand tools and materials. The working properties of timber. Finishing techniques.	
Testing and evaluation.	This is taught to enable students develop the skills to be able to test and evaluate the success of a product. It	Reference made to evaluation and testing skills taught in year 7. Greater emphasis on analytical writing.	Testing and evaluation is an integral part of the DT curriculum. It is included in every project.	How to analyse the success of their product. Comparing final outcome to design brief.	

also develops critical		Understanding and	
thinking and data		analysis of peer	
analysis through		feedback.	
evaluation.		Analysis of data.	
		Responding to data	
		analysis.	

Year 9 undertake a ro	tation consisting of two <sup>-</sup>	18 week projects during	the academic year.			
Topics	Why we teach this	Links to last topic	Links to future topics	Key skills developed	Cultural capital opportunities	Links to whole school curriculum
Health and safety in the workshop.	We teach this to ensure all students are aware of the health and safety expectations of working in a design and technology workshop.	Students will do a refresher of health and safety protocols covered in year 8.	Health and safety is integral in keeping students safe in the DT workshop. This is revisited at the start of every project.	How to act responsibly in the DT workshop.		
Understanding a design brief.	A design brief is an integral part of Design and Technology projects. It is the foundation of all projects from KS3 through to KS4.	Students will be given a more in depth design brief than in year 8 with a more client centred focus and recycled materials.	All projects start with a design brief. These build in complexity in future projects.	How to understand and break down a design brief.		
Writing a design brief.	Writing their own design brief enables students to understand the expectations of the project. This sets expectations for future projects.	Reference to brief writing in year 8 with an emphasis on the use of recycled materials.	Students will be expected to write individual design briefs in future projects.	Analytical skills. Design brief writing skills.		
Researching existing products.	This is taught to enable students to gain an understanding of the work of other designers. This research help in the design of their own products.	References made to product analysis in year 8 with an emphasis on more in-depth analysis. Using ACESSFM to analyse a product.	Product analysis is undertaken in every DT project.	Analytical skills are developed enabling students' to respond to the work of other designers. Using the work of other designers as inspiration.		
Man made timbers.	Students will gain an understanding of the production techniques involved in manufacturing man- made timbers.	References made to natural timbers and man-made timbers and the introduction of the metals and alloys.	During years 7,8 and 9 students will gain knowledge of a range of timbers. In year 7 the focus is natural timbers, year 8 focus on man- made timbers with year 9 focussing on metals and alloys.	Students will gain a good understanding of the provenance of different types of woods and timbers, costing and common uses.		

Tools and their uses.	This is taught to enable students to understand the name and uses of specific tools we use in DT. It also covers the looking after and maintenance of tools.	References made to the tools used in previous project and the introduction of a wider range of tools and machinery.	Students will use a wide range of tools and machinery when making their final outcomes. Year 7 focus on hand tools whereas year 8 and 9 introduce a wider range of hand tools as well as machinery.	A good understanding of tools and their uses. Development od DT terms and vocabulary. A good understanding of how to maintain tools. The working parts of tools. The safe operation od DT	
Initial design ideas.	This is taught to enable students to develop a range of design ideas. It also helps with the avoidance of design fixation.	References made to the drawing techniques learnt in year 7 and 8.	Generating initial ideas is generic throughout the DT curriculum at all key stages. Drawing techniques are an integral part of the design process.	workshop machinery. Creativity. Drawing techniques. Communication of ideas.	
Developing design ideas – including 3D drawing.	This ism taught to enable students to develop the skills to develop initial ideas into a final design solution. It covers an range of drawing skills including drawing in 3D to communicate ideas.	References made to the development skills taught in year 7 and 8 with a greater emphasis on accuracy and dimension and the development of ideas using CAD/CAM.	Developing initial ideas is generic throughout the DT curriculum at all key stages. Drawing techniques are an integral part of the design process. Drawing in 3D enables students to successfully communicate their design ideas.	Analysis of existing ideas through annotation. How to change and developing a design idea. How to refine ideas. Collaborative design.	
Making final outcome.	We teach this to enable students to develop their making skills. They are encouraged to make a well made individual response which meets the design brief.	Revisit of skills taught in year 7 and 8. Manipulation of tools to create a wider range of components.	Students are expected to make a final outcome in every DT project. These build in complexity in year 8,9 and KS4.	Measuring and proportion. The manipulation of hand tools and materials. The working properties of timber. Finishing techniques.	
Testing and evaluation.	This is taught to enable students develop the skills to be able to test and evaluate the success of a product. It	Reference made to evaluation and testing skills taught in year 7 and 8.	Testing and evaluation is an integral part of the DT curriculum. It is included in every project.	How to analyse the success of their product. Comparing final outcome to design brief.	

also develops critical	Greater emphasis on	Understanding and	
thinking and data	analytical extended	analysis of peer	
analysis through	writing.	feedback.	
evaluation.		Analysis of data.	
		Responding to data	
		analysis.	

-	torage Boxes – Salvador I age for inspiration students v		aiaat far tha nartfalia unit d	af their CCCC, working three	igh all four according to h	inctives and concluding
	ie Autumn term of year 11.	vill work on an extended pr	oject for the portiono unit o	of their GCSE, working throu	ign all four assessment ob	Jectives and concluding
Topics	Why we teach this	Links to last topic	Links to future topics	Key skills developed	Opportunities for cultural capital	Links to whole school curriculum
Autumn 1: Artist resea	arch and contextual studi	es	·			
Artist/designer research	Artists research: to address AO1 – starting points: Surrealism Salvador Dali	Research and analysis skills learnt during KS3 projects.	Research and recording skills needed for Externally set task.	Selection of appropriate images and artist to inform own work Layout/composition of selected images Presentation of work.	Looking at the work of other designers/artists.	
Autumn 2: skills devel	opment					
	To address AOs 3 and 2 Recording observations and use of a range of materials Artists' research then ideas for 2D work to satisfy the criteria for the specification.	References made to drawing techniques covered during KS3 projects.	Drawing and designing skills needed for Externally Set Task	Creativity. Drawing techniques. Communication of ideas.		
Making a box joint - process	To address AOs 3 and 2 Recording observations and use of a range of materials	References made to skills learnt during KS3 projects.	Making skills link directly to Externally Set Task.	Making skills – manipulation of tools. Measuring and proportion. Finishing techniques. Analysis of outcome.		
Spring 1: Developmen	t of ideas, reviewing and	experimentation				
Making a storage box	Reviewing, refinement and development of ideas to meet the criteria for AOs 1 and 2 Experiments with	References made to skills learnt during KS3 projects.	Making skills link directly to Externally Set Task.	Making skills – manipulation of tools. Measuring and proportion. Finishing techniques. Analysis of outcome.		
	different artists'					

sty	les, materials and				
tec	chniques				
Spring 1: Development of ic	deas				
Rev	viewing,	References made to	Development of ideas	Drawing and	
ref	inement and	skills learnt during	link directly to	rendering skills.	
dev	velopment of ideas	KS3 projects.	Externally Set Task.	Communication of	
to	meet the criteria	References made to		ideas.	
for	AOs 1 and 2	drawing techniques		Drawing in 2D and	
Exp	periments with	learnt during KS3		3D.	
diff	ferent artists'	projects.		Annotation of design	
sty	les, materials and			ideas.	
tec	chniques			Linking their work to	
				the work of others.	
Spring 2: Further developm	ent of ideas, reviewi	ing and experimentation	1		
Fur	rther reviewing,	References made to	Development of ideas	Drawing and	
ref	inement and	skills learnt during	link directly to	rendering skills.	
dev	velopment of ideas	KS3 projects.	Externally Set Task.	Communication of	
to	meet the criteria	References made to		ideas.	
	AOs 1 and 2	drawing techniques		Drawing in 2D and	
Stu	idents select media	learnt during KS3		3D.	
and	d design for final	projects.		Annotation of design	
dev	velopment.			ideas.	
				Linking their work to	
				the work of others.	
Summer 1: Working towa	ards final outcome	s – realising intentions	in a personal respons		
	idents working on	Links made to skills	Skills link directly to	Drawing and	
	al pieces and	and techniques learnt	Externally Set Task.	rendering skills.	
	ishing techniques	during kS3 projects.		Communication of	
	king work to			ideas.	
Sal	vador Dali.			Drawing in 2D and	
				3D.	
				Annotation of design	
				ideas.	
				Linking their work to	
				the work of others.	
Summer 2: Working towa	ards final outcomes	s – realising intentions	in a personal respons	e	

Students working on	Links made to skills	Skills link directly to		
final pieces and	and techniques learnt	Externally Set Task.		
finishing techniques	during kS3 projects.			
linking work to				
Salvador Dali.				
Evaluation of final				
outcome.				

Topics	Why we teach this	Links to last topic	Links to future topics	Key skills developed	Opportunities for cultural capital	Links to whole school curriculum
Autumn 1: Artist rese	arch and contextual studi	es				
Artist/designer research	Artists research: to address AO1 – starting points: Philippe Stark	Research and analysis skills learnt during KS3 projects.	Research and recording skills needed for Externally set task.	Selection of appropriate images and artist to inform own work Layout/composition of selected images Presentation of work.	Looking at the work of other designers/artists.	
Autumn 2:						
	To address AOs 3 and 2 Recording observations and use of a range of materials Artists' research then ideas for 2D work to satisfy the criteria for the specification.	References made to drawing techniques covered during KS3 projects.	Drawing and designing skills needed for Externally Set Task	Creativity. Drawing techniques. Communication of ideas.		
Final outcome	To address AOs 3 and 2 Recording observations and use of a range of materials	References made to skills learnt during KS3 projects.	Making skills link directly to Externally Set Task.	Making skills – manipulation of tools. Measuring and proportion. Finishing techniques. Analysis of outcome.		
	orking on their choice of fi	· · · · ·		1	1	
Externally assessed unit (exam project)	<ul> <li>Artists' research</li> <li>Initial ideas</li> <li>Primary research</li> </ul>	Same sequence of activities from initial ideas through to final outcomes – follows same process as year 10 projects.	As stated above.	Time management and sequence of activities from artists' research and initial ideas through to personalised outcomes.		

Externally set unit	Development of ideas	As stated above	As stated above	As stated above					
(exam project)	<ul> <li>Experimentation</li> </ul>								
	with								
	media/techniques								
	• Further								
	development								
Summer 1: Students working on their choice of five themes provided by OCR									
	• Further	As stated above	As stated above	As stated above					
	developments								
	<ul> <li>Final piece plan</li> </ul>								
	<ul> <li>Final outcomes</li> </ul>								