

# Design Technology

Curriculum Information, Intent and Map

**Hutton Church of England Grammar School** 

### Staff:

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- Mr C James
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#### Intent:

- Support all KS3 students in achieving their flight path or above at KS3
- Support all KS4 and 5 Students in achieving their target grade at GCSE and GCE examination
- To maintain a high level of safety and safe working practices within the department.
- To challenge students into becoming creative, responsible, articulate designers.
- To allows to students to develop skills outside of the assessment framework.
- To prepare students for work, academia, industry and collaborative practice.
- Numeracy and literacy will be focused during the design and make tasks across all year groups.
- Skills and knowledge from all curriculum areas will be used to underpin, support and reinforce learning in the department and across the school.
- An iterative approach to knowledge and skills based delivery will be applied across all year groups. This will encourage critical thinking and independence within the students. A level of resilience will be encouraged in the students as they endeavour to solve problems and create a robustness in their designs and thinking.
- The design cycle will be used to give structure to their learning and planning as they move through and develop their individual projects and outcomes. Building confidence in their ability to approach new topics with a development of new skills.
- Our Church of England whole school ethos will be applied within the department to support and encourage a robustness within the department. Design technology is a subject that asks the students to draw upon a wide skill set. Romans 12:6 We have different gifts, according to the grace given to each of us

#### Exodus 31:1-6

• Then the LORD said to Moses, "See, I have chosen Bezalel son of Uri, the son of Hur, of the tribe of Judah, and I have filled him with the Spirit of God, with wisdom, with understanding, with knowledge and with all kinds of skills to make artistic designs for work in gold, silver and bronze, to cut and set stones, to work in wood, and to engage in all kinds of crafts. Moreover, I have appointed Oholiab son of Ahisamak, of the tribe of Dan, to help him. Also I have given ability to all the skilled workers to make everything I have commanded you'

# Design and Technology Programmes of Study: Key Stage 3 National Curriculum in England

## **Purpose of Study**

Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Pupils learn how to take risks, becoming resourceful, innovative, enterprising and capable citizens. Through the evaluation of past and present design and technology, they develop a critical understanding of its impact on daily life and the wider world. High-quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation

## **Aims**

The national curriculum for design and technology aims to ensure that all pupils:

- \* develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world
- \* build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users

- A critique, evaluate and test their ideas and products and the work of others
- ♣ understand and apply the principles of nutrition and learn how to cook

## **Attainment Targets**

By the end of key stage 3, pupils are expected to know, apply and understand the matters, skills and processes specified in the programme of study

## **Subject Content in Key Stage 3**

Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of domestic and local contexts and industrial contexts.

When designing and making, pupils should be taught to:

### Design

- ♣ use research and exploration, such as the study of different cultures, to identify and understand user needs
- ♣ identify and solve their own design problems and understand how to reformulate problems given to them
- A develop specifications to inform the design of innovative, functional, appealing products that respond to needs in a variety of situations A use a variety of approaches to generate creative ideas and avoid stereotypical responses
- A develop and communicate design ideas using annotated sketches, detailed plans, 3-D and mathematical modelling, oral and digital presentations and computer-based tools

#### Make

\* select from and use specialist tools, techniques, processes, equipment and machinery precisely, including computer-aided manufacture

\* select from and use a wider, more complex range of materials, components and ingredients, taking into account their properties

#### **Evaluate**

- A analyse the work of past and present professionals and others to develop and broaden their understanding
- ♣ investigate new and emerging technologies
- \* test, evaluate and refine their ideas and products against a specification, taking into account the views of intended users and other interested groups
- understand developments in design and technology, its impact on individuals, society and the environment, and the responsibilities of designers, engineers and technologists

#### **Technical Knowledge**

- ♣ understand and use the properties of materials and the performance of structural elements to achieve functioning solutions
- ♣ understand how more advanced mechanical systems used in their products enable changes in movement and force ♣ understand how more advanced electrical and electronic systems can be powered and used in their products
- A apply computing and use electronics to embed intelligence in products that respond to inputs and control outputs using programmable components

## **Cooking and Nutrition**

As part of their work with food, pupils should be taught how to cook and apply the principles of nutrition and healthy eating. Instilling a love of cooking in pupils will also open a door to one of the great expressions of human creativity. Learning how to cook is a crucial life skill that enables pupils to feed themselves and others affordably and well, now and in later life.

Pupils should be taught to:

understand and apply the principles of nutrition and health

- A cook a repertoire of predominantly savoury dishes so that they are able to feed themselves and others a healthy and varied diet
- ♣ become competent in a range of cooking techniques
- ♣ understand the source, seasonality and characteristics of a broad range of ingredients

## **Curriculum Map**:

Year	Project 1	Project 2	Project 3	Project 4	Project 5	Project 6
7	Introduction to	Introduction to Papers	Introduction to	Introduction to Plastics-	Food & Nutrition:	Food &
	Timber-Desk Tidy Your	& Boards-Ugly Head	CAD/CAM-Earphone Tidy	Phone stand	learning key skills in	Nutrition:
	task is to design and	Spatial awareness is a	Your task is to design and		the kitchen including	Design
	make a Desk Tidy that	key skill for a designer.	prototype an earphone	Introduction to Timber-	knife skills, mixing,	Brief/Context
	will hold your pens	Spatial awareness is	tidy. It will be made from	Snakebox In this project	baking, hob work,	Design and
	and pencils and	the ability to know	high impact polystyrene.	you will use creative	food hygiene and	make a
	prevent them from	how objects relate to	Students create their	drawing techniques to	routines of the	healthy
	'disappearing'.	each other in space or	own brief following their	illustrate your ideas,	kitchen. Healthy	packed lunch
		in a three dimensional	research	and using a simple	living and food	that includes
	Introduction to	world.		mechanism animate	safety and	a range of
	Plastics-Key Fob This	Your task is to design	Skills:	your design. You will	equipment.	savoury and
	firm has asked you to	a net for a cube. A net	DESIGNING-	also be asked to use the		sweet food
	design and make an	is a flat shape that can	Understanding contexts,	workshop safely and		products
	attractive acrylic key	fold into a 3D object.	users and purposes,	use a range of materials		that are
	fob which may be sold	On this net you are to	Generating, developing,	and equipment to help		suitable to
	in the company's	draw six sides of a	modelling and	the manufacture of		be included
	shops. This project is	head.	communicating ideas	your piece.		in a school
	also an introduction to		EVALUATING-Own ideas			lunch box,
	the workshop. You will		and products, Existing	Skills:		are
	learn that safety of		products MAKING-	DESIGNING-		presented as
	yourself and others is	Skills:	Planning, Practical skills	Understanding		individual
	the most important	DESIGNING-	and techniques	contexts, users and		portions and
	aspect.	Understanding	TECHNICAL KNOWLEDGE-	purposes, Generating,		can be easily
		contexts, users and	Making products work	developing, modelling		eaten
		purposes, Generating,				without

	Skills: DESIGNING-	developing, modelling and communicating		and communicating ideas		cutlery or mess.
	Understanding contexts, users and	ideas EVALUATING-Own		EVALUATING-Own ideas and products, Existing		
	purposes, Generating,	ideas and products,		products MAKING-		
	developing, modelling	Existing products		Planning, Practical skills		
	and communicating ideas	MAKING- Planning, Practical skills and		and techniques TECHNICAL		
	EVALUATING-Own	techniques		KNOWLEDGE- Making		
	ideas and products,	TECHNICAL		products work		
	Existing products	KNOWLEDGE- Making		'		
	MAKING- Planning,	products work				
	Practical skills and					
	techniques					
	TECHNICAL KNOWLEDGE- Making					
	products work					
	products work					
0	Design Brief/Context	Design Brief/Context	Design Brief/Context	Design Brief/Context	Food & Nutrition:	Food &
8	Design Brief/Context	Design Brief/Context	Design Brief/Context	Design Brief/Context	FOOD & NUTTITION.	F000 &
٥	Your design task is to	You will design,	Three dimensional	Pop Up Card- You have	Students will be	Nutrition:
ō	Your design task is to create a spatula that	You will design, prototype and make a	Three dimensional computer aided design	Pop Up Card- You have been asked to develop	Students will be learning about	Nutrition: Design
ō	Your design task is to create a spatula that will meet the	You will design, prototype and make a working clock inspired	Three dimensional computer aided design has become normal in	Pop Up Card- You have been asked to develop a campaign based	Students will be learning about Special diets	Nutrition: Design Brief/Context
•	Your design task is to create a spatula that will meet the ergonomic needs of	You will design, prototype and make a working clock inspired by a design	Three dimensional computer aided design has become normal in industry. A 3D CAD	Pop Up Card- You have been asked to develop a campaign based around a postal camper	Students will be learning about Special diets including ages,	Nutrition: Design Brief/Context Design and
•	Your design task is to create a spatula that will meet the ergonomic needs of many people while	You will design, prototype and make a working clock inspired by a design movement. You	Three dimensional computer aided design has become normal in industry. A 3D CAD drawing will be used to	Pop Up Card- You have been asked to develop a campaign based around a postal camper van. All items must be	Students will be learning about Special diets including ages, allergies,	Nutrition: Design Brief/Context Design and make a range
0	Your design task is to create a spatula that will meet the ergonomic needs of many people while fitting in with a	You will design, prototype and make a working clock inspired by a design movement. You should use no more	Three dimensional computer aided design has become normal in industry. A 3D CAD drawing will be used to design the product, show	Pop Up Card- You have been asked to develop a campaign based around a postal camper van. All items must be drop flat and be	Students will be learning about Special diets including ages, allergies, intolerance, religion,	Nutrition: Design Brief/Context Design and make a range of savoury
0	Your design task is to create a spatula that will meet the ergonomic needs of many people while	You will design, prototype and make a working clock inspired by a design movement. You	Three dimensional computer aided design has become normal in industry. A 3D CAD drawing will be used to	Pop Up Card- You have been asked to develop a campaign based around a postal camper van. All items must be	Students will be learning about Special diets including ages, allergies,	Nutrition: Design Brief/Context Design and make a range
0	Your design task is to create a spatula that will meet the ergonomic needs of many people while fitting in with a	You will design, prototype and make a working clock inspired by a design movement. You should use no more than five colours of	Three dimensional computer aided design has become normal in industry. A 3D CAD drawing will be used to design the product, show a realistic image and then	Pop Up Card- You have been asked to develop a campaign based around a postal camper van. All items must be drop flat and be delivered with a scene	Students will be learning about Special diets including ages, allergies, intolerance, religion, vegetarians and	Nutrition: Design Brief/Context Design and make a range of savoury and sweet
0	Your design task is to create a spatula that will meet the ergonomic needs of many people while fitting in with a distinct market niche.  Design Brief/Context Vehicle Light- In this	You will design, prototype and make a working clock inspired by a design movement. You should use no more than five colours of acrylic and the clock should be no larger than 150 x 150mm. It	Three dimensional computer aided design has become normal in industry. A 3D CAD drawing will be used to design the product, show a realistic image and then manufactured using Cam or rapid prototyping.	Pop Up Card- You have been asked to develop a campaign based around a postal camper van. All items must be drop flat and be delivered with a scene and information about a destination.	Students will be learning about Special diets including ages, allergies, intolerance, religion, vegetarians and vegans. They will practice and develop skills in blending,	Nutrition: Design Brief/Context Design and make a range of savoury and sweet food products that are
0	Your design task is to create a spatula that will meet the ergonomic needs of many people while fitting in with a distinct market niche.  Design Brief/Context Vehicle Light- In this project you will	You will design, prototype and make a working clock inspired by a design movement. You should use no more than five colours of acrylic and the clock should be no larger than 150 x 150mm. It should use a quartz	Three dimensional computer aided design has become normal in industry. A 3D CAD drawing will be used to design the product, show a realistic image and then manufactured using Cam or rapid prototyping.  Skills	Pop Up Card- You have been asked to develop a campaign based around a postal camper van. All items must be drop flat and be delivered with a scene and information about a destination.	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	Nutrition: Design Brief/Context Design and make a range of savoury and sweet food products that are healthy
8	Your design task is to create a spatula that will meet the ergonomic needs of many people while fitting in with a distinct market niche.  Design Brief/Context Vehicle Light- In this project you will manufacture an	You will design, prototype and make a working clock inspired by a design movement. You should use no more than five colours of acrylic and the clock should be no larger than 150 x 150mm. It should use a quartz movement and be	Three dimensional computer aided design has become normal in industry. A 3D CAD drawing will be used to design the product, show a realistic image and then manufactured using Cam or rapid prototyping.  Skills DESIGNING-	Pop Up Card- You have been asked to develop a campaign based around a postal camper van. All items must be drop flat and be delivered with a scene and information about a destination.  Skills DESIGNING-	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,	Nutrition: Design Brief/Context Design and make a range of savoury and sweet food products that are healthy alternatives
0	Your design task is to create a spatula that will meet the ergonomic needs of many people while fitting in with a distinct market niche.  Design Brief/Context Vehicle Light- In this project you will manufacture an electronic circuit	You will design, prototype and make a working clock inspired by a design movement. You should use no more than five colours of acrylic and the clock should be no larger than 150 x 150mm. It should use a quartz movement and be powered by one AA	Three dimensional computer aided design has become normal in industry. A 3D CAD drawing will be used to design the product, show a realistic image and then manufactured using Cam or rapid prototyping.  Skills DESIGNING- Understanding contexts,	Pop Up Card- You have been asked to develop a campaign based around a postal camper van. All items must be drop flat and be delivered with a scene and information about a destination.  Skills DESIGNING- Understanding	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,	Nutrition: Design Brief/Context Design and make a range of savoury and sweet food products that are healthy alternatives to the junk
0	Your design task is to create a spatula that will meet the ergonomic needs of many people while fitting in with a distinct market niche.  Design Brief/Context Vehicle Light- In this project you will manufacture an electronic circuit board, gaining an	You will design, prototype and make a working clock inspired by a design movement. You should use no more than five colours of acrylic and the clock should be no larger than 150 x 150mm. It should use a quartz movement and be	Three dimensional computer aided design has become normal in industry. A 3D CAD drawing will be used to design the product, show a realistic image and then manufactured using Cam or rapid prototyping.  Skills DESIGNING- Understanding contexts, users and purposes,	Pop Up Card- You have been asked to develop a campaign based around a postal camper van. All items must be drop flat and be delivered with a scene and information about a destination.  Skills DESIGNING- Understanding contexts, users and	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	Nutrition: Design Brief/Context Design and make a range of savoury and sweet food products that are healthy alternatives to the junk food that can
0	Your design task is to create a spatula that will meet the ergonomic needs of many people while fitting in with a distinct market niche.  Design Brief/Context Vehicle Light- In this project you will manufacture an electronic circuit board, gaining an appreciation of	You will design, prototype and make a working clock inspired by a design movement. You should use no more than five colours of acrylic and the clock should be no larger than 150 x 150mm. It should use a quartz movement and be powered by one AA battery	Three dimensional computer aided design has become normal in industry. A 3D CAD drawing will be used to design the product, show a realistic image and then manufactured using Cam or rapid prototyping.  Skills DESIGNING- Understanding contexts, users and purposes, Generating, developing,	Pop Up Card- You have been asked to develop a campaign based around a postal camper van. All items must be drop flat and be delivered with a scene and information about a destination.  Skills DESIGNING- Understanding contexts, users and purposes, Generating,	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,	Nutrition: Design Brief/Context Design and make a range of savoury and sweet food products that are healthy alternatives to the junk food that can be bought
	Your design task is to create a spatula that will meet the ergonomic needs of many people while fitting in with a distinct market niche.  Design Brief/Context Vehicle Light- In this project you will manufacture an electronic circuit board, gaining an	You will design, prototype and make a working clock inspired by a design movement. You should use no more than five colours of acrylic and the clock should be no larger than 150 x 150mm. It should use a quartz movement and be powered by one AA	Three dimensional computer aided design has become normal in industry. A 3D CAD drawing will be used to design the product, show a realistic image and then manufactured using Cam or rapid prototyping.  Skills DESIGNING- Understanding contexts, users and purposes,	Pop Up Card- You have been asked to develop a campaign based around a postal camper van. All items must be drop flat and be delivered with a scene and information about a destination.  Skills DESIGNING- Understanding contexts, users and	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	Nutrition: Design Brief/Context Design and make a range of savoury and sweet food products that are healthy alternatives to the junk food that can

	also design and make	DESIGNING-	EVALUATING-Own ideas	ideas EVALUATING-Own		and fast food
	the case using	Understanding	and products, Existing	ideas and products,		restaurants.
	industrial	contexts, users and	products MAKING-	Existing products		restauraries.
	manufacturing	purposes, Generating,	Planning, Practical skills	MAKING- Planning,		
	processes.	developing, modelling	and techniques	Practical skills and		
	processes.	and communicating	TECHNICAL KNOWLEDGE-	techniques TECHNICAL		
		ideas EVALUATING-	Making products work	KNOWLEDGE- Making		
		Own ideas and	Waking products work	products work		
	Skills	products, Existing		products work		
	DESIGNING-	products MAKING-				
	Understanding	Planning, Practical				
	contexts, users and	skills and techniques				
	purposes, Generating,	TECHNICAL				
	developing, modelling	KNOWLEDGE- Making				
	and communicating	products work				
	ideas EVALUATING-	products work				
	Own ideas and					
	products, Existing					
	products MAKING-					
	Planning, Practical					
	skills and techniques					
	TECHNICAL					
	KNOWLEDGE- Making					
	products work					
	products work					
9	Design Brief/Context	Design Brief/Context	Design Brief/Context	Design Brief/Context	Food & Nutrition:	Food &
	The Automata	Design and make a	Olympic promotional	Designing using	Science –	Nutrition:
	museum wishes to sell	USB powered light	products- Some products	research, stylising	Investigation into	Multicultural
	a range of mechanical	that will be used as a	have strong historic links.	products for a market.	the working	foods and
	toys which young	task light when	In this project you are to	Use of Accurate 2D	characteristics of	food science
	children can buy and	working in the	consider some historic	design, batch	ingredients. •	
	play with at home.	evenings. You will use	references and use	production line	Nutritional analysis –	
	The mechanical toy	a combination of	design theories to make	bending.	Understanding the	
	should be simple,	materials to produce	them relevant to today's		contents of recipes	
	cheap to manufacture	your light and it will	consumer.	Skills	and being able to	
	and attract the	be additionally			improve and analyse	

	interest of young	decorated with Vinyl.	Skills	DESIGNING-	the value of	1
	interest of young	I	DESIGNING-			
	children. It should be	You to consider the		Understanding	ingredients.	
	relatively cheap to buy	wants and needs of a	Understanding contexts,	contexts, users and	Food provenance –	
	so that the children	given user when	users and purposes,	purposes, Generating,	Looking closely to a	
	can afford to buy it	designing the product.	Generating, developing,	developing, modelling	range of countries	
	with their pocket		modelling and	and communicating	and understanding	
	money. The product	Skills	communicating ideas	ideas EVALUATING-Own	the route of	
	should represent a	DESIGNING-	EVALUATING-Own ideas	ideas and products,	methods of cooking,	
	folk or fairy tale by	Understanding	and products, Existing	Existing products	farming and	
	using characters from	contexts, users and	products MAKING-	MAKING- Planning,	traditional	
	the tale.	purposes, Generating,	Planning, Practical skills	Practical skills and	ingredients	
		developing, modelling	and techniques	techniques TECHNICAL		
	Skills	and communicating	TECHNICAL KNOWLEDGE-	KNOWLEDGE- Making		
	DESIGNING-	ideas EVALUATING-	Making products work	products work		
	Understanding	Own ideas and				
	contexts, users and	products, Existing				
	purposes, Generating,	products MAKING-				
	developing, modelling	Planning, Practical				
	and communicating	skills and techniques				
	ideas EVALUATING-	TECHNICAL				
	Own ideas and	KNOWLEDGE- Making				
	products, Existing	products work				
	products MAKING-					
	Planning, Practical					
	skills and techniques					
	TECHNICAL					
	KNOWLEDGE- Making					
	products work					
We	follow the Edexcel GCSE	(9-1) Design and Technolo	ogy (1DT0) Graphics Pathway:	1DT0/1B – Papers and boar	ds & RM Pathway: 1DT0/	1F – Timbers
			specification.	•	•	
		We Follow the	AQA GCSE (9-1) Food Prepar	ation and Nutrition (8585)		
10	Mini Project. That	Mini Project. That	Mini Project. That	Mini contextual	Revision	Contextual
	includes theory for	includes theory for	includes theory for	challenge		challenge –
	syllabus and how to	syllabus and how to	syllabus and how to	Ŭ	Theory:	Investigate

	create design and research sheets for the GCSE.  Theory: 1.1 The impact of new and emerging technologies 1.2 Critical evaluation of new and emerging Technologies. 1.3 How energy is generated and stored. 1.4 Developments in modern and smart materials.  Food. Nutrition and practical skills.	create design and research sheets for the GCSE.  Theory: 1.5 The functions of mechanical devices used to produce different sorts of movements 1.6 How electronic Systems provide functionality to products and processes 1.7 The use of programmable components  Food. Nutrition and practical skills. Mock NEA2 research and practical skills.	create design and research sheets for the GCSE.  Theory: 1.8 – 1.12 The Categorisation of the types, properties and structure of materials.  Food Food safety and factors effecting food choice. (Exam question practice)	Theory: 1.13 All design and Technological practice takes place within contexts which inform outcomes 1.14 Investigate environmental, social and economic challenges  Food. Nutrition and practical skills. Mock NEA2 research and practical skills.	-Design contextsThe sources, origins, physical and working properties of specialist material -Selection of specialist material -The impact of forces and stressesStock forms - Alternative processes -Specialist techniques, tools, equipment -Appropriate surface Treatments and finishes  Food Mock NEA1 food science investigation. Specific dietary needs.	Theory: 1.15 Investigate and analyse the work of past and present professionals and companies  Revision & Mock Exams  Food. Theory and food science exam questions.
11	Contextual challenge – Investigate Specification Design Theory: 1.16 Use different	Contextual challenge Design Review Develop – Review Revision & Mock Exams	Contextual challenge – Manufacture Food NEA2	Contextual challenge – Manufacture Testing and Evaluation Food NEA2 and exam theory	Prepare for assessment of NEA Revision & Exams  Food. Revision & Exams	Revision & Exams

	design strategies to generate initial ideas and avoid design fixation  Food Final NEA1 food science. Worth 15% of final grade.	Theory: 1.17 Develop, communicate, record and justify design ideas,  Food Final NEA1 food science. Worth 15% of final grade. Start NEA2 worth 35% of final grade. 1st November.				
			lexcel Level 3 Advanced G0		<u> </u>	
12	Design and make assignment  Theory: Topic 1: Materials Topic 2: Performance Characteristics of Materials	Design and make assignment  Theory: Topic 3: Processes and techniques Topic 4: Digital technologies Topic 5: Factors influencing the development of products	Design and make assignment  Theory: Topic 6: Effects of technological developments Topic 7: Potential hazards and risk assessment	Design and make assignment  Theory: Topic 8: Features of manufacturing industries	Design and make assignment  Theory: Topic 11: Information handling, Modelling and forward planning Topic 12: Further processes and techniques.	NEA: Part 1: Identifying and outlining possibilities for design  Revision & Mock Exams
13	NEA: Part 1: Identifying and outlining possibilities for design Part 1: Specification	NEA: Part 2: Designing a prototype Part 3: Making a final prototype	NEA: Part 3: Making a final prototype	NEA: Part 3: Making a final prototype Part 4: Evaluating own design and prototype	Prepare for assessment of NEA. Revision & Exams	Revision & Exams

Part 2: Designing a				
prototype				

Please note that the KS3 plans are a guide. The students rotate between specialist staff and rooms. The sequence of the projects can be delivered in any order. At all times prior knowledge is built upon to cover the syllabus and create progression in the student learning

## For additional course & curricular information please see:

**GCSE:** Options Booklet (KS4 Curriculum & GCSE Options Information Tab)

A Level: Sixth Form Course Booklet (Sixth Form Course Booklet Tab)