



Technology Department Curriculum 2021-22

"Design is thinking made visual." - Saul Bass

"Cooking is all about people. Food is maybe the only universal thing that really has the power to bring everyone together. No matter what culture, everywhere around the world, people eat together." - Guy Fieri

Intent

Technology is an invaluable part of the education of young people. It challenges students to solve real world problems through practical and rigorous investigation whilst developing key skills such as creativity, resilience, risk taking, innovation, enterprise and collaboration. Students design, develop and make products to meet the needs of others and in doing so become resourceful, capable, and confident individuals.

Technology also offers opportunities for students to develop self-knowledge: they build skills in evaluating themselves and target setting; they develop an understanding of their role and place within the wider world; they explore their role as learners, such as learning how to learn.

The Technology curriculum at Studley High School has been formulated to provide students with a broad and diverse range of learning experiences that develop student's capabilities and understanding across key sought after disciplines such as art, science, engineering, ICT and mathematics.

The Technology curriculum has been formulated to allow students to: develop an interest, curiosity, enjoyment and confidence in investigating a variety of processes and techniques through practical exploration to become independent learners; have an awareness and appreciation of the technological developments in the world around us and investigating how and where we could use these in development of our own practical tasks; identify and solve problems, undertake research, organise and sustain independent practical work to completion developing a sense of achievement, self-awareness and fulfilment in the creation of products; develop self-knowledge as learners, producers and consumers, and as thinking and feeling young people with the developing ability to take responsibility for the direction of their learning through the adoption of effective working practices in a vocational context.

At Key Stage 3, students' learning centres around three key areas of study: Resistant Materials, Food & Nutrition and Graphics, where they will work through a range of diverse, relevant and contemporary design briefs that promote a love of learning and an appreciation of the importance of high quality design and the principles of nutrition.





At Key Stage 4, students will then have the opportunity to develop their skills further in one of the following three subject specialisms:

- Design & Technology
- Food Preparation & Nutrition
- Hospitality & Catering

Each specialism allows, and demands, individual students to find their own voice and personal idea development within the confines of a brief. Our ambition as a department is to avoid overly-prescriptive outcomes that would deny the students the time and space to develop themselves and their ambitions through their work.

Students learn to try out new ideas and processes without fear of failure and they become confident and purposeful risk-takers. They analyse and evaluate what they experience and observe, judging relevance and value according to intentions. Through the development of ideas and products, Students learn to explore issues, events and problems from different perspectives and viewpoints.

Implementation

The Technology Department employs a range of teaching and learning styles. These are flexible, with a considered balance between the didactic and instructional, and the need for each student to develop an individual line of theoretical and practical enquiry.

Teaching methods include: teacher led demonstration, student led research and experimentation, practical work focused on specific outcomes, open-ended tasks based on themes, negotiated tasks and outcomes and collaborative tasks.

Teachers within the Technology Department vary the teaching and learning styles to suit the needs of individual students and groups of students, and the nature of the activity. A variety of teaching and learning styles provides stimulating and motivating experiences for students. It is important to be aware of the different styles utilised and of the dominant mode if there is one. This helps to focus on the activities in the classroom in an effort to raise the attainment of all students. Furthermore, a self-reflective attitude fosters the notion of continual improvement.

Teachers within the Department work hard to identify the needs and potentials of all students. In this way the Technology Department seeks to provide a range of meaningful experiences that enable all students to fulfil their individual potential. Teachers within the Department therefore attempt to be fully aware of the needs of individual students. This knowledge informs the planning, delivery and evaluation cycle. In this way work is tailored to the needs of the full range of abilities, including both the less and the more able.

The assessment of students' learning is a vital part of the work of the Technology Department. It provides important information for students, parents and teachers regarding the achievement and attainment of individual students and groups of students. It also provides teachers with invaluable information to help plan future design experiences. Students are monitored continually in an effort to increase their rate of progress.





Assessment within the department is undertaken using:

KS3

The National Curriculum in England Design and Technology

KS4

- AQA GCSE Food Preparation and Nutrition
- AQA Design and Technology
- WJEC Eduquas L1/2 Hospitality and Catering

Work is assessed as soon as possible following its completion. Students are given feedback regarding this teacher assessment as soon as is practicable, and are given opportunities for self-assessment and self-evaluation.

Impact/achievement

The study of Technology provides students with a range of life-long, transferable skills that will equip them for the demands of future learning, the world of work and life in general. These include decision making, independent enquiry, creative thinking, self-management, digital literacy, communication, self-confidence, presentation, team work, research, problem solving and critical thinking. Students realise the significance of technology and the creative industries in their community, their country and the world. Students develop the technical and practical expertise needed to participate successfully in an increasingly technological world. The department has a proven track record with regards to attainment, with all year groups making good progress leading to good results. All 3 Technology areas are popular subjects at Key stage 4, with many students going onto further education and apprenticeships in this area.





Year Group	Subject	Projects	Knowledge/Skills	Techniques/ Materials	Enrichment and Extension	Activities/ Outcomes	Assessment
7	Resistant Materials	Upcycled Hybrid Creature - a multi-functional bookend 12 Weeks	Introduction to tools, equipment & Health & Safety in the workshop. Research and design skills. Woodwork making skills Evaluation skills	Students will be introduced to woodwork techniques; Cutting with coping and tenon saw Shaping and smoothing with files and sandpaper Drilling wood with hand drill and pillar drill Decorating with paints and wood varnish	Literacy – key words and glossaries The environment - the importance of upcycling and environmental impact. Problem solving - working to a brief and developing design ideas.	Creating a wooden toy for a specific target audience. Primary research - interview client Write a brief Develop design ideas Use of specific tools to cut, shape, join and decorate toy.	peer assessment self assessment and target setting Formative assessment Recap Quizzes Summative assessment - End of rotation feedback
	Food & Nutrition	Introduction to Food Preparation and Nutrition 12 weeks	What does a well balanced dish look like? How can we keep healthy and safe in the kitchen environment? What skills do we know already? Which do we need to master?	Skills/ techniques: Knife skills (bridge and claw/ slicing, dicing, batons, julienne etc.) peeling, Temperature control (hob, grill & oven), Stirfrying, sauteing, simmering, boiling, blending, baking, grilling, sieving, rubbing in, combining,	Literacy – key words and glossaries Numeracy - measuring out accurately, scaling recipes up and down problem solving, - adapting recipes to suit tastes/ special dietary	Recipes: Fruit salad/ vegetable noodle salad, soup, scones, Fruit or vegetable crumble, stir-fry, fresh pasta, chicken tikka and chapati, flapjack. Food science task (prep for GCSE	Ongoing Glossary of key words Quizzes Peer assessments Gimme 5 One to one support and feedback Summative assessment - End of





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		What is the importance of understanding food science?	making a dough, portioning, glazing,, stewing fruit, layering, Marinating, dry frying, melting, test for readiness Equipment: Utility knife, chopping board, peeler, saucepan, white spoon, tablespoon, butter knife, teaspoon, garlic press, tin opener, stick blender, mixing bowl, sieve, wok, pasta machine, colander.	requirements collaboration - food science tasks/ deciding on experiments and writing up results PHSE - wellbeing/ healthy eating - cooking for enjoyment/ cooking together/ understanding how to eat a healthy nutritious well balanced diet.	NEA1) Homework task - Preparation for GCSE FP&N NEA2 + L1/2 H&C NEA	rotation feedback
Graphics	Introduction to Graphics and greetings card	How do I use a drawing board What is a technical drawing? What is Graphics? 2D/3D Shapes, isometric drawing Typography	2D and 3D drawing skills Paper manipulation - pop up and stencil Craft knifes and board	Literacy – key words and glossaries Artist focus – Rob Ryna and Robert Sbuda numeracy - measurements, shapes and technical drawing skills	Research into designers Symmetry and repeat pattern 1 point and 2 point perspective drawing Typography Greetings cards	peer assessment self assessment and target setting Formative assessment Recap Quizzes Summative assessment - End of rotation feedback





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					Batch production		
	Resistant Materials	Modern design Jewellery and holder	How could jewellery be displayed and kept safe?	Pewter casting and acrylic cutting, shaping and drilling.	Literacy – key words and glossaries	Research into modern design styles - 1960's space age and 1980's memphis	peer assessment self assessment and target setting
			How can you be inspired by design styles?	Making templates	Numeracy - measuring and accurate scale	Design skills	
		12 weeks	How do I develop	jewellery fastenings and accessories	drawing	Pewter casting	Formative assessment
8			ideas based on my client profile?		Problem solving and working to a brief	Cutting and shaping acrylic	Recap Quizzes
					Historical research and context	Assembling jewellery holder	Summative assessment - End of rotation feedback
						Review and evaluate final product	





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Food	Developing Skills in Food Preparation and Nutrition	What does a well balanced dish look like?	Skills: yeast based dough - shaping, layering, fruit	Literacy – key words and glossaries	Recipes: Pizza	Baseline assessment Ongoing Glossary of
		What is food	and veg preparation, peeling, grating, knife skills (bridge + claw , dice,	Numeracy -	Bolognese OR Chilli	key words
		provenance? How are food ingredients	mince, baton, julienne etc.), baking, Temperature control	measuring out accurately, scaling recipes	Pasta salad OR Pasta bake	Quizzes
3/	12 weeks	processed?	(hob, grill & oven), Stir- frying, sauteing, simmering, boiling,	up and down	Chicken / fish / halloumi goujons + potato wedges	Peer assessments
		How can I develop my skills further in making food	blending, baking, grilling, sieving, rubbing in, combining, making a	problem solving, - adapting recipes to suit tastes/	Cheese and onion pasty/ turnovers	Gimme 5
		products?	dough, portioning, glazing, layering, Marinating, dry frying, jam making, whisking,	special dietary requirements	homemade jam	One to one support and feedback
			test for readiness	collaboration - food science tasks/ deciding	Food science task (prep for GCSE NEA1)	Summative assessment at end
			Equipment: Utility knife, chopping	on experiments and writing up		of project
			board, peeler, saucepan, white spoon, tablespoon, butter knife, teaspoon, fork, garlic	results	Homework task - Preparation for GCSE FP&N NEA2 + L1/2 H&C NEA	
			press, tin opener, stick blender, mixing bowl, sieve, measuring jug,	PSHE - wellbeing/ healthy eating - cooking for enjoyment/		





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			wok, colander.	cooking together/ understanding how to eat a healthy nutritious well balanced diet.		
Graphics	Graphics and Branding 12 weeks	How do famous company's create branding for their business? What is the importance of packaging? What makes an eye catching product? Designer research logo design, Shop front/perspective drawing, packaging design (layout and Typography)	Development of design skills - Typography, layout, logo design and corporate identity Paper and card construction - packaging	Literacy – key words and glossaries Numeracy - measuring and accurate scale drawing Problem solving and working to a brief Cross curricular - food technology	Researching into different food/drink packaging Design idea, layout designs and models Cutting and folding card/paper to construct 3D forms (packaging) Logo development	self assessment and target setting Formative assessment Recap Quizzes Summative assessment - End of rotation feedback





9	Design & Technology Autumn and Spring Term (3 x 9 week rotations)	Multi discipline project – Educate children on sustainability by making a visual screen for an exhibition	What is sustainability? How do we work to a client brief? Develop design ideas How to use scale drawing to help with the construction process Learn new practical skills and further develop new skills	Build on existing woodwork and metal work skills from yr 7/8 Develop new textiles skills - Wood frame/loom construction - Welding - Stencil printing - Weaving - Embellishments	Literacy – key words and glossaries Environmental issues and discussions Problem solving and working to a brief Developing new skills and confidence in the workshop whilst adhering to health and safety rules	Researching sustainability and presenting information in a visual way Using different tools to assemble a wood and metal frame Create a woven piece and stencil piece of textiles	self-assessment and target setting Formative assessment End of topic Quiz Summative assessment - End of rotation feedback
	Design & Technology Summer Term	Model making – looking at Architectural Design	How do you design using a specification? How do you use the work of other designers to inspire	Understand the properties of papers and boards Recap previously learnt drawing skills and apply to develop 3D drawing	Use of BBC BItesize to further develop learning and understanding of the AQA DT spec (keywords and videos)	Researching a designer (GCSE spec) Design development activities (initial	self-assessment and target setting Formative assessment





Students to opt (GCSE style project)		your work? How do you use model making to visualise an idea?	Use of plan drawing Develop cutting and model making skills		ideas, 3D drawing and technical drawing with measurements) Card and paper construction	End of topic Quiz Summative assessment – in line with GCSE
Techniques/ Materials	Enrichment and Extension	d Activities/ Outcomes	Assessment			
Food Preparation & Nutrition Autumn and Spring Term (3 x 9 week rotations)	practical – the functions of the ingredients in a cake recipe Analysing / comparing nutrition of recipes, making muffins (healthy eating theme) Making high quality higher skilled food products	What are food allergies & intolerances & how can we adapt dishes to suit different dietary needs? What are the sources and functions of the macronutrients: protein, fat, and carbohydrate? What are the functions of the ingredients used to make cakes?	Muffins practical • Weighing /measuring • Prepare/grate/ mash fruit/veg • Folding in • Portioning • Baking • Testing for readiness Special equipment: Muffin/ cake cases/tray	Literacy - keywords and glossaries Health related issues and discussions Developing new skills and confidence in the kitchen whilst adhering to health and safety rules	Wk. 1&2 - Food science practical - role of sugar in a Wk. 3&4 - Muffin practical outcome: comparing muffin recipe to standard cupcake – analysing nutritional differences and implications to eating a healthier diet.	Self-assessment and target setting Formative assessment End of topic Quiz Summative assessment





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cheese) Food science: - Understanding the functions of egg in a recipe (coagulation + denaturation) - Understanding the function of starch in a roux sauce (gelatinisation) Healthy eating NEA2 style task Teenage Dietary	How can practical skills be developed further and how can I use these skills to make different dishes? What is heat transfer? Give examples of where used What do the following food science terms mean? (Gelatinisation/coagulation/denaturation)	Quiche practical Shortcrust pastry Rubbing in Resting Rolling / shaping Lining tin Blind baking Filling Veg + meat prep Fat based cooking - shallow frying (conduction) Layering Combining Presentation Baking Testing for readiness Special equipment: baking beans/foil	Use of nutritional analysis to calculate and analyse the nutritional profile of a range of dishes and use this to suggest who recipes are suitable for and possible healthier adaptions.	Wk 5&6 – Quiche practical (shortcrust pastry/lining tin/ blind baking/veg + meat prep/baking/testing for readiness) outcome: final presentation / photo Wk. 7&8 – roux based sauce focus - Macaroni / cauliflower cheese outcome: final presentation / photo	
needs		Cauliflower / macaroni cheese			
Key tasks:		 Making a roux (starch based) sauce 			
1) Research + summarise		 Boiling pasta/water based convection (al dente) or preparing 			





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	2) Choose recipes (chosen from list given - may be agreed in advance with teacher) 3) Evaluate skills/ nutrition / cost/ successes / suggest improvements		cauliflower (steaming?) Checking for readiness Grilling, Combining Layering Garnishing Presentation Special. Equipment: steamer? (for cauliflower) colander, / food processor (for breadcrumb gratin topping if desired)			
Food	NEA 2 style task:	What are the	Pasta	Trip to local farm	Design and	Self assessment and
Preparation & Nutrition	Special dietary requirement theme	different cooking methods? How do cooking methods affect the nutritive value of food?	making a dough/ shaping/ filling/ layering/ coating / boiling/ baking/ steaming/	OR Malvern 3 Counties Show Use of nutritional	developed dishes Analysis of GCSE FP&N subject	target setting Formative assessment
Summer Term	1) research a htopic of Special dietary requirement		Chicken kiev and coleslaw	analysis to calculate and analyse the nutritional profile of a range of	Practice exam questions	End of topic Quiz
Students to opt (GCSE style project)	(e.g. vegans/ coeliac/ pescatarian/ low fat / low carbohydrate/	How can I show high skills in my practical tasks?	Meat/protein prep/ stuffing / enrobing/pan frying / veg prep / emulsion sauce (mayonnaise)	dishes and use this to suggest who recipes are suitable for and possible healthier		Summative assessment





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	high fibre)		Decorated Focaccia	adaptions.		
	summarise					
		How do you write a	Bread making / kneading			
	findings	detailed time plan?	proving / shaping / veg			
		defailed fiftle plarty				
			prep / presentation /			
			baking			
	2) choose 1					
	recipe to					
	develop					
	•		Kung Pao Stir fry			
	(agreed with		g,			
	teacher)		marinating / veg prep /			
	•					
			optional to make noodles			
	3) Write a					
	detailed step by					
			High fibre cupcakes			
	step plan of how					
	to make (focus		Weighing and measuring			
	on showing		/ recipe adaptation /			
	_		combining / portioning /			
	wide variety of					
	skills)		baking			
			Designed salad and			
			vinaigrette			
			Veg cuts, julienne, fine			
			dice, baton / emulsion			
			sauce / presentation /			
			recipe adaptation			
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Hospitality &	Theory lessons	What does the	Minestrone Soup	Numeracy -	Practical dishes,	Self-assessment and
Catering	will cover	kitchen Brigade look		measuring out	minestrone soup,	target setting
	content from	like?	Veg prep – medium and	accurately	samosas, fajitas and	-
Autumn and			fine dicing. Sautéing and	according	-	
	this qualification				decorated	





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Spring Term	and the		simmering.		cheesecake.	Formative
(3 x 9 week rotations)	practicals will develop more complex preparation, cooking and presentation skills.	What are the nutritional needs of a teenager? What are the different cooking methods? How do cooking methods	Samosas veg prep - julienne/ / fine dice Filo pastry -filling, shaping, folding, baking.	problem solving, - adapting recipes to suit tastes/ special dietary requirements Developing their understanding of	Knowledge of nutrients and the foods they are found in. Ability to read food labels.	assessment End of topic Quiz Summative assessment
		affect the nutritive value of food?	Fajitas and wraps	cooking methods and nutrients		assessmem
		What information can be found on food labelling and why is it important?	Veg prep. Preparing meat or choice of protein, marinating. Bread making, combing, kneading and pan frying. Assembling and presentation	How does the industry work?		
			Decorated cheesecake			
			Crushing, melting. Combining. Flavouring and decorating,			
Hospitality &	The structure of	What kind of	Pasta	Trip to local farm	Practical dishes	Self-assessment and
Catering	the hospitality and catering	establishments are there in the industry?	making a dough/	OR Malvern 3 Counties Show		target setting
	industry		shaping/ filling/ layering/		Design and	
Summer			coating / boiling/ baking/			Formative





Term Students to opt	Practical lessons will focus on increasing the skill required in preparation, cooking and presentation	What makes a H&C establishment successful?	Chicken kiev and coleslaw Meat/protein prep/ stuffing / enrobing/pan frying / veg prep / emulsion sauce (mayonnaise) Decorated Focaccia Bread making / kneading proving / shaping / veg prep / presentation /	Focus on industry local business and changing government policies.	developed dishes Analysis of H&C offerings Recommend types of establishments, service and facilities for different demographics with reasoning. Practice exam questions	assessment End of topic Quiz Summative assessment
			Kung Pao Stir fry marinating / veg prep / optional to make noodles High fibre cupcakes Weighing and measuring / recipe adaptation /			





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				Designed salad and vinaigrette Veg cuts, julienne, fine dice, baton / emulsion sauce / presentation / recipe adaptation			
10	Design & Technology Term 1	Project – Cam toy (mechanisms) Theory lesson – Research into new and emerging technologies (1 lesson a fortnight) 7 weeks	What is motion? How and why are mechanisms used? How do you make an interactive toy? What are the different industries and production techniques? The importance of sustainability?	Responding to a brief Using a theme to help develop design ideas Developing working drawings to help with making Theory: Looking at people, culture and society, sustainability, industry and enterprise and production techniques and systems	The impact of mechanisms on everyday life Links to culture and society. PLTS - Independent enquirers and Reflective learners. Developing their understanding of the ethical debate relating to sustainability Enterprise	Initial ideas Working drawing Designing and making a cam toy Various presentations videos discussions research into topics	tests quizzes formative self-assessment Summative end of project feedback sheet





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Design & Technology Term 2 -3	Wooden chair project Theory: Investigate different materials and techniques (1 lesson a fortnight)	Why do we need flat pack furniture? What is biomimicry? How do you develop a design into a working drawing? What are the properties of different materials? Why are different techniques used?	Computer research and portfolio presentation Developing design ideas Further development of practical woodwork skills Theory: Papers and boards natural and manufactured timbers metals and alloys polymers textiles	Links to the environment and the implications of different materials and processes	Research into Ikea, flat pack and Biomimicry Design ideas and developing designs Various presentations Theory: videos discussions research practical investigations	tests quizzes formative Peer/ self- assessment Summative end of project feedback sheet
Design & Technology Term 4	Circuits project Theory: Investigate	What is Energy generation and how is it stored? What are smart and modern materials? What are composite	Learn how to draw out a circuit diagram Make a circuit	cross curricular - science Environmental Issues – linked to	Various presentations	tests quizzes
	different energy, material, systems and devices.	materials and technical textiles? mechanical devices, electronic systems	Theory: Research into all of the	climate change and carbon footprints	Theory: videos discussions	formative





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		and programmable	different topic areas and		research	self-assessment
		components. How do you make a circuit?	terms.		practical investigations	Summative end of project feedback sheet
Design & Technology	Perfume design project	What are the main features when	Recap of design principles	Real life scenarios	Go through design process	tests
Term 5	Theory	designing in technology?	CAD drawing	problem solving	with a given brief	quizzes
	Designing and making principles	How do you use cad/cam?	making process and card	gathering market research - social skills and	practice 2D design skills	formative
			·	discussion	make mock up card model	self and peer assessment
					write up a making diary	
Design & Technology	Launch coursework project - NEA	What scenario will you choose?	mind map	Problem solving	Identifying and investigating design	self and peer assessment
Term 6	project item	Who is your target market/user?	mood board	real life scenarios	possibilities Producing a design	personal tutorials
		What will you design and make?	primary research write a brief	Primary research	brief and specification	
			Willo d bliot	– market research		questioning





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			specification			internal standardisation
Term 1	Macronutrients: Protein, carbohydrate and fats recap Micronutrients: vitamins, minerals	What is NEA2, what does it involve? How will I make sure I am prepared well for it? What food products can I make which will demonstrate a high level and range of skills for (nutrient) How can I use my knowledge on macronutrients to help me answer exam questions?	Knowledge of Function, Excess / deficiency, DRVs / RIs, and food science terminology of macronutrients choose 3 recipes (linked to specific macronutrients) and make independently to demonstrate a range of skills	UCB Birmingham - cooking course for Y10/11 Mid Sept - Oct Half term (Saturdays) - info provided - up to pupils & parents to enroll, ensure pupils attend Seneca Learning set as homework and extension to link into topics covered and wider revision.	Exam style questions mini tests Mini NEA 2 - focus on exploring nutrition of dishes and comparing against portion sizes / Eatwell guide suggestions etc. Free and/ or guided choices to show higher level skills where possible on foods that are a good source of Carbohydrate Protein good fats Vitamins Minerals	Written and verbal feedback Termly Internal standardisation Questioning Quizzes





GCSE Food Term 2	Nutritional needs and health - the impact of eating to excess/ deficiency Comparing dietary needs of different age groups	What are the nutritional needs of different age groups? How much is a portion? What are the possible negative effects of a poor diet? What do the following words mean and how are they caused? Obesity, cardiovascular disease. high blood pressure, cavities, rickets, osteoporosis anaemia, type 2 diabetes.	Practical tasks / skills based on guided choices which demonstrate a variety of skills. as follows: S1 – General practical skills S2 – Knife skills S3 – Preparing fruit and vegetables S4 – Use of the cooker S5 – Use of equipment S6 – Cooking methods S7 – Prepare, combine and shape S8 – Sauce making S9 – Tenderise and marinate S10 – Dough S11 – Raising agents S12 – Setting mixtures	Seneca Learning set as homework and extension to link into topics covered and wider revision.	Free and/ or guided choices to show higher level skills where possible on foods that provide a healthy balance of foods to encourage a healthy lifestyle to prevent diseases researched. Pupils fill in a skills passport throughout this year, guided to complete skills which will help them to show as many skills as possible throughout the year.	Written and verbal feedback Termly Internal standardisation Questioning Quizzes
GCSE Food Term 3	Food science cooking of food and heat transfer	What is NEA1, what does it involve? How will I make sure I am prepared well for it?	Practical tasks / skills based on guided choices which demonstrate a variety of skills. as follows:	UCB Birmingham - cooking course for Y10/11 Mid Feb - April	Practical tasks will be a mixture of food science experiments and	Written and verbal feedback
	Selecting	Why is food cooked and how is heat transferred to food?	\$1 – General practical	approx (Saturdays) - info provided - up to pupils & parents	and link practical tasks which demonstrate the different food	Termly Internal standardisation





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appropriate cooking methods	How do different cooking methods affect the sensory qualities of the food?	skills S2 – Knife skills S3 – Preparing fruit and	to enroll, ensure pupils attend	science Terminology for each macronutrient area.	Questioning
Protein - functional and chemical properties of food Carbohydrates - functional and chemical properties of food	What do the following terms mean?: Denaturation, coagulation, gluten formation formation What do the following terms mean?: gelatinisation,	vegetables S4 – Use of the cooker S5 – Use of equipment S6 – Cooking methods S7 – Prepare, combine and shape S8 – Sauce making S9 – Tenderise and marinate	Seneca Learning set as homework and extension to link into topics covered and wider revision.	Pupils fill in a skills passport throughout this year, guided to complete skills which will help them to show as many skills as possible throughout the year. Revision and NEA1	Quizzes
Fats - functional and chemical properties of food	dextrinization, caramelisation What do the following terms mean?: Shortening, aeration(by creaming) plasticity in emulsification	S10 – Dough S11 – Raising agents S12 – Setting mixtures		practice/ preparation Choice of: Fats carbohydrates Proteins	





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GCSE Food Term 4	Food science functional and chemical properties of food: raising agents(mechanical, Biological and chemical raising agents)	describe what is meant by the term raising agents explain how chemical raising agents work in food products explain how mechanical raising agents work in food products explain how biological raising agents work in food products	Practical tasks / skills based on guided choices which demonstrate a variety of skills. as follows: S1 – General practical skills S2 – Knife skills S3 – Preparing fruit and vegetables S4 – Use of the cooker S5 – Use of equipment S6 – Cooking methods S7 – Prepare, combine and shape S8 – Sauce making S9 – Tenderise and marinate S10 – Dough S11 – Raising agents S12 – Setting mixtures	Seneca Learning set as homework and extension to link into topics covered and wider revision.	Revision and NEA1 practice/ preparation Choice of raising agents	Written and verbal feedback Termly Internal standardisation Questioning Quizzes
GCSE Food Term 5	Food Safety: Food spoilage and	How does food spoilage occur? What conditions do	Practical tasks / skills based on guided choices which demonstrate a variety of skills. as follows:	Seneca Learning set as homework and extension to link into topics covered and	Pupils will complete a variety of activities/ tasks which will enable them to understand	Written and verbal feedback Termly Internal
	GCSE Food	Term 4 functional and chemical properties of food: raising agents (mechanical, Biological and chemical raising agents) GCSE Food Food Safety: Term 5 Food spoilage	Term 4 functional and chemical properties of food: raising agents(mechanical, Biological and chemical raising agents work in food products explain how chemical raising agents work in food products explain how mechanical raising agents work in food products explain how mechanical raising agents work in food products explain how biological raising agents work in food products explain how biological raising agents work in food products Food Safety: How does food spoilage occur?	Term 4 functional and chemical properties of food: raising agents	functional and chemical properties of food: raising agents (mechanical, Biological and chemical raising agents) explain how chemical raising agents work in food products explain how mechanical raising agents work in food products explain how mechanical raising agents work in food products explain how mechanical raising agents work in food products explain how biological raising agents work in food products explain how biological raising agents work in food products explain how biological raising agents work in food products explain how biological raising agents work in food products explain how biological raising agents work in food products explain how biological raising agents work in food products explain how biological raising agents work in food products explain how biological raising agents work in food products explain how biological raising agents work in food products explain how mechanical raising agents work in food products explain how mechanical raising agents work in food products explain how mechanical raising agents work in food products explain how mechanical raising agents work in food products explain how mechanical raising agents work in food products explain how mechanical raising agents work in food products explain how mechanical raising agents work in food products S1 – General practical skills S2 – Knife skills S3 – Preparie, combine and shape S8 – Sauce making S9 – Tenderise and marinate S10 – Dough S11 – Raising agents S12 – Setting mixtures Seneca Learning set as homework and extension to link into topics covered and variety of skills. as follows: link into topics covered and	Term 4 Term 4 Functional and chemical properties of food:





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	contamination	How are microorganisms used in food production? What are pathogenic bacteria? How can we plan to make sure we are safe when we are preparing high risk food items?	S1 – General practical skills S2 – Knife skills S3 – Preparing fruit and vegetables S4 – Use of the cooker S5 – Use of equipment S6 – Cooking methods S7 – Prepare, combine and shape S8 – Sauce making S9 – Tenderise and marinate S10 – Dough S11 – Raising agents S12 – Setting mixtures	wider revision.	food safety including how to prevent food spoilage, contamination etc. Pupils will produce a detailed plan including health and safety points and make a main meal which could, if prepared incorrectly, leads to to a range of food poisoning possibilities EG rice, meat, (minced beef, chicken, pork)	standardisation Questioning Quizzes
GCSE Food	NEA2 Focus: British and international cuisine: explore foods of	Identify the factors that contribute to food choice Identify and explore religious, cultural and ethical reasons that may influence what we choose to eat	Practical tasks / skills based on guided choices which demonstrate a variety of skills. as follows: S1 – General practical skills S2 – Knife skills S3 – Preparing fruit and vegetables S4 – Use of the cooker	Seneca Learning set as homework and extension to link into topics covered and wider revision.	NEA2 Focus: research and summarise a selection of international cuisines, use that information to choose a product of choice. Demonstrate practical skills, explain reasons for	NEA2 marking framework shared, Written and verbal feedback as a group and individual where needed. Termly Internal standardisation





	British and international cuisine, equipment, cooking meth, eating patterns, presentation Styles.	What is the importance of food labelling information? How is sensory evaluation used in food production?	S5 – Use of equipment S6 – Cooking methods S7 – Prepare, combine and shape S8 – Sauce making S9 – Tenderise and marinate S10 – Dough S11 – Raising agents S12 – Setting mixtures		choice, analyse nutrition and discuss costing, suggest adoptions.	Questioning Quizzes
Hospitality & Catering	Factors that affect the	What makes a Hospitality and	Fresh pasta making a dough/	Cultural Development -	Wk 1&2 Pasta- Ravioli	Written and verbal feedback
Term 1	Hospitality and Catering industry	catering establishment successful?	shaping/ filling/ layering/ coating / boiling/ baking/ steaming/	Looking at wider society to understand how H&C establishments	shaped pasta that has not split when cooked	Termly Internal standardisation
		Costs	Equipment:	are successful		
		Profit	pasta machine		Wk 3&4 Lasagne – Making own pasta.	Questioning
		Economy	steamer		Making a smooth bechamel sauce.	
		Environmental	food processor		Prepping and	Quizzes
		Technology	stick blender		cooking a reduction sauce.	
		Trends			Creating distinguished layers	
		Customer demographics and lifestyle expectations	Lasagne - Veg prep / dry frying / reduction sauce / roux sauce / layering / pasta making. Optional side garlic bread -		Wk 5&6 Rough puff/ flaky	





		O TO THE STATE OF	
Customer s Competition Political factor Media	baking Salad - spiralisina	pastry, (lamination) - Used to make fruit tartlets or sausage plait with garnish/ decoration	
	Rough puff/ flaky pastry, making a dough lamination - (folding to create thin layers of fat + dough) rolling and shaping Equipment: mixing bowl palette knife measuring jug food bag/ cling film rolling pin	Week 7&8 -Self guided practical choice to develop their puff pastry into a dish of their choice ie sausage roll	
	Developed Puff/Flakey pastry		





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			Practical tasks / skills based on guided choices which demonstrate a variety of skills.		
Hospitality & Catering Term 2	Working practices of the Hospitality and Catering Industry	How does the front of house and back of house operate? Kitchen layout	Fruit upside down cake with custard - Fruit preparation / caramelisation / creaming / baking. Custard - thickening / hob	Wk 9&10 Fruit upside down cake and custard - presentation and sides, dovetailing two dishes	One to one tutorials – written and verbal feedback Termly Internal
		Work flow Equipment Stock control	control Equipment - cake tin / electric whisk	Wk 11&12 Rice - Cooked rice without excess	standardisation Questioning
		Documents Dress code Safety and security	Rice - Risotto or savoury stuffed peppers - Veg prep / Sauteing / cooking rice. Side dishes such as vegetables salad	liquid, presented in an attractive way with thought given to sides	
			Equipment - Saucepan / fish slice Kung pow chicken -	Wk 13&14 Kung pow chicken - Working with meat and deboning. presenting in an	
			Deboning chicken legs / marinating / veg prep / optional to make noodles Equipment - Wok / Deboning knife / pasta	christmas / celebration theme -	





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			machine		christmas cake (victoria sponge based) / choc yule log (swiss roll or meringue based) / etc.	
Hospitality &	Catering for	What provisions and	Panna cotta with fruit	UCB Birmingham -	Wk 15&16 Panna	One to one tutorials
Catering Term 3	customers needs	facilities can establishments offer for its customers?	coulis - using gelatine / hob control / preparing and shaping fruit / layering / presentation	cooking course for Y10/11 Mid Feb - April approx	cotta with fruit coulis - Gelatinisation, presentation skills,	– written and verba feedback
		What do other H&C establishments look like and what do they	techniques Equipment - Pudding moulds / sieve / paring knife	(Saturdays) - info provided - up to pupils & parents to enroll, ensure	plate up dish and decorate.	Termly Internal standardisation
		offer that is unique? Types of customer - businessman, leisure and local residents	Veggie or meat burgers and buns - Mincing / blending / shaping / kneading / proving /	pupils attend	Wk 15&16 veggie or meat burgers - Practicings higher level skills, designing burger thinking about flavour and accompaniments	Questioning
		Customers needs and expectations	layering / adding flavour with herbs and spices		·	
		Customer trends Customer rights	Optional side chips, ketchup, salad,		Wk 17&18 Curry with chapatti/naan/paratha - making	
		2 23.93	Equipment - Mincer / blender / dredger		curry paste from scratch, making and presenting of	
			Curry with chapatti/naan/		dish and	
			Cony with Chapatil/hadh/			





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			paratha - veg prep / meat/fish/ alternative protein prep / marinating / simmering / making a sauce / making a dough baking/grilling, stuffing naan/ paratha garnishing. Equipment - flour dredger / boning knife Practical tasks / skills based on guided choices which demonstrate a variety of skills.		wk 19&20 - Self guided practical choice to practice skills and recipes to suit a brief.	
Hospite Caterie	issues issues	How can you consider environment when menu planning	Meringue italian or french. Mini pavlovas, Eton mess or baked alaska - whipping / baking / decorating	Moral Development - looking at our environment and understanding	Wk 20&21 Meringue italian or french - Even sizes piping and shaping skills	One to one tutorials – written and verbal feedback
161111 4	customers needs	Food provence Food production and sustainable practices	Equipment - Electric whisk / piping bag	the effect our food choices can have	Wk 22&23 Meat/Halloumi/ Vegetable kebabs	Termly Internal standardisation
		Saving energy Reducing waste Planning a menu	Meat/Halloumi/ Vegetable kebabs with dressing - veg/meat prep marinating / mixing / skewering grilling / making a dressing		with dressing - Using the grill, nutritionally balanced dish, portion sizing	Questioning





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		that's suitable for different establishments and customers needs	garnishing. Equipment - skewers / boning knife		Wk 24&25 Fish Pie - High level skill practice, filleting fish, piping. Presentation	
		Exam long answer question practice	Fish pie - veg prep / fillet fish / boiling roux sauce / baking / food styling piping. Equipment - filleting knife,			
			piping bag / colander / potato ricer Practical tasks / skills based on guided choices			
			which demonstrate a variety of skills.			
Hospitality & Catering	Revision and practice NEA (unit 2) - Street food	Exam preparation for mocks	Practical tasks / skills based on guided choices which demonstrate a variety of skills.	Working to a brief - vocational context to develop transferrable skills	Students work independently selecting dishes to trial that demonstrate a	One to one tutorials – written and verbal feedback
Term 5 & 6		Practice NEA - plan and make dishes suitable for a festival		and competencies e.g problem solving,	range of skills and meet the brief.	Termly Internal standardisation
		Skills - focus on independent menu planning		communication	Students will complete written coursework and	Questioning





						44.3	
						cook two dishes	
П	Design & Technology	NEA Coursework 50% Design, make,	NEA Coursework Design, make, test and evaluate	Generating design ideas Developing design ideas	Problem solving Numeracy - scale drawings,	Developing designs based on previous research work.	Peer and self assessment
11	Term 1, 2 &3	test and evaluate deadline at the end of term 3.		Realising design ideas Analysing & evaluating	isometric drawing	Final technical drawings on paper and using CAD.	work to be sent off for moderation.
						Using different tools and processes to make a prototype or model.	
						Record getting the user to test out product and evaluate.	
	Design & Technology	Revision for external exams	Revise the 3 different areas for the external exam;	Past papers Power points	PLTS – encouraging creative thinking, independent enquiry and	Students to work through a range of past papers.	Peer assessment Self assessment
			Core technical		reflective learning and problem	Tests and quizzes on	





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Term 4,5 &6		principles Specialist technical principles Designing and making principles	Videos BBC Bitesize Quizzes	solving	the 3 different areas. watch videos and make notes/mind maps of ket terms	regular feedback from mini quizzes and mock tests
GCSE Food Term 1, 2 &3	NEA 1 Food Science Investigation 10 hours (including 3 hours of practical) NEA 2 Food Preparation Assessment (20 hours including practical)	Pupils produce both paper element and practical outcome.	NEA1: food science experiments: Research Into how ingredients work and why, draw conclusions, plan and conduct tests, analyse findings 10 hours. NEA2: Plan and prepare 3 dishes applying their knowledge of nutrition to the chosen brief. Complete skills trials. 20 hours	Research Analysing, drawing conclusions Conducting tests to prove or disprove a theory re Responding to results, explaining. Revision sessions	Students will be able to comprehend a question quickly through understanding of key command words. Students will be able to structure their written answer for long answer questions practical assessment outcomes	Quizzes One to one tutorials – written and verbal feedback Questioning
GCSE Food	NEA 2 Food Preparation	Pupils produce both paper element and	NEA2: Plan and prepare 3 dishes applying their	Research	Students will be able to	Peer assessment





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Term 4, 5 &6	Assessment (20 hours including practical) Revision for	Practical outcome. Recap of exam paper knowledge and practicing long	knowledge of nutrition to the chosen brief. Complete skills trials. 20 hours	Demonstrating skills Menu planning	comprehend a question quickly through understanding of key command words.	Self-assessment Assessment of NEA using AQA
	exam paper	answer questions.	Learn command words	Analysing,	Students will be able to structure	template.
		Practice exam papers	Structure of written answers	Evaluation	their written answer for long answer questions	Only generic - not individual feedback can be given
			Revision guides	Revision sessions		during task due to this forming part of the final grade
						Feedback to pupils when graded / moderated
						NEA2 Grade out of 70
						(35% of final grade)
						Work to be sent off for moderation.





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						Quizzes, questioning
						One to one tutorials – written and verbal feedback
Hospitality & Catering Term 1, 2 &3	Revision for mock exams	Recap of exam paper knowledge and practicing long	Laptops	Research - looking at existing H&C	Trial dishes to practice skills	Verbal feedback
1611111, 2 &3	Non exam assessment 9	answer questions.	Practicing high level skills and trialing dishes that are suitable for brief.	establishments	Written coursework which includes	Self-assessment
	hours	Feedback from mock exam and targeted revision		Revision sessions	research, menu suggestions and time plan for cooking	mini mock nea completed and grades given
		Brief for non-exam assessment issued, work completed in lesson time. Research plan and cook 2			Two dishes plated and presented.	
		dishes and accompaniments to meet brief			Revision resources	
Hospitality & Catering Term 4, 5 & 6	Non exam assessment 9 hours	Finish non exam assessment work	Learn command words	catch up NEA sessions	Non exam assessment work is completed	Quizzes
161111 4, 3 & 6	Revision for	Recap of exam paper knowledge	Structure of written answers	Higher level skills sessions for	Students will be	One to one tutorials – written and verbal





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exam paper	and practicing long		students if	able to	feedback
	answer questions.	Davisia a surida a	needed	comprehend a	
		Revision guides		question quickly	
				through	
	Practice exam		Revision sessions	understanding of	
	papers		10011303310113	key command	Questioning
	papers			words.	
				Students will be	
				able to structure	
				their written answer	
				for long answer	
				questions	