

To provide students with the knowledge, understanding and skills required to cook and apply the principles of food science, nutrition and healthy eating. To enable students to make connections between theory and practice to apply the understanding of food and nutrition to practical preparation. To develop a knowledge of various food and ingredients, to develop skills and processes while developing their practical skills. To prepare students for their NEA by completing a practice NEA 1 in Year 10.

Unit:	Core knowledge/skill development:	Sequence:	Assessment	Literacy, numeracy, PSHE, FBV, other links	ACP and VAA development:	Home learning and enrichment
			Term 1 and 2 (14 we	eeks)		
Food spoilage and contamination 4.1.1 & 4.1.4 Principles of food safety 4.2.1 & 4.2.2	Understand microorganisms and enzymes and understand bacterial contamination. Understand how to buy and store food safely. Also prepare, cook and serve food safely.	Builds on skills taught in KS3. Essential knowledge to use throughout the GCSE practical work – understand the basic expectations in practical lessons and developing knife	Practical work assessed in terms of practical quality only, using GCSE specification grade descriptors. 3.1.1, 3.1.4, 3.2.1, 3.2.2 and 1.1.1-1.1.6 assessed using low-stakes quizzes	Correct use of subject specific terminology – ALL SECTIONS. Numeracy – weighing & measuring accurately	REALISING — Automaticity Speed and accuracy for all practical tasks	Ingredients for Vegetable soup Chicken bites Quiche (shortcrust pastry) Pizza Pasta Lasagne
Nutrition- Understand macronutrients and micronutrients. 1.1.1 Protein	Protein – Definition Functions in the body Sources of protein HBV Proteins LBV Proteins Protein complementation	skills. Builds on basic skills taught in KS3 but teaches students more advanced functions and uses in the body.	and summative exam questions.		REALISING Automaticity Speed and accuracy LINKING Generalisation	



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	Effects of deficiency and excess protein in the diet					
1.1.2 - Fats	Fats Definition of fat. Functions in the body. Main sources of fat in the diet. Effects of deficiency and excess of fat in the diet. Importance of reducing amount of saturated fat in our diets.				ANALYSING Critical thinking LINKING Generalisation Connection finding	
1.1.3 Carbohydrates	Carbohydrate – Definition Function in the diet Main sources of carbohydrate in diets: sugar – free / hidden, starch and NSP Effects of deficiency and excess Amount needed for everyday life. Importance of reducing free sugars in our diets.	Builds on skills taught in KS3 but encourages further independence and confidence in the workshop. Emphasis on accuracy.			REALISING Automaticity Speed and accuracy	



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1.1.4 Vitamins	Vitamins –			Science / PE	ANALYSING	
Water soluble B & C Fat soluble A, D, E & K	Understand the definition of waterand fat-soluble vitamins. Functions in the body. Sources in the body. Effect of deficiencies and excesses in the body. Daily dietary refence values needed.			work.	Critical thinking LINKING Generalisation Connection finding	
1.1.5 Minerals	Minerals – Understand the definition of minerals. Functions in the body. Sources in the body. Effect of deficiencies and excesses in the body. Daily dietary refence values needed.				REALISING Automaticity Speed and accuracy	
1.1.6 Water	Water- Functions in the body Sources				ANALYSING Critical thinking LINKING	HL – Workbook completion



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	Excess and deficiency in the diet.				Connection finding Generalisation	
Nutritional needs and health	Understand the Eatwell guide and dietary guidelines.	Develop on knowledge learnt in KS3		SMSC -	ANALYSING Critical thinking LINKING	HL – Workbook
1.2.1 Making informed food choices for a varied and balanced diet	Know each segment of the Eatwell Guide, linked to the food				Generalisation Connection finding	completion
and palanced diet	groups and how much should be eaten. Understand how to plan balanced meals linked to portion size and costing. Plan meals based on					
	different life stages, dietary intolerances, allergies, medical or health conditions.					
1.2.2 – Energy Needs	Functions of energy in the body. Main sources of energy in the diet. Effects and deficiencies of energy in the diet. Energy needed – BMR, PAL.	New content for students to learn.		SMSC – links with physical education and science.	ANALYSING Critical thinking LINKING Generalisation Connection finding	



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1.2.3 – How to carry out nutritional analysis. 1.2.4 – Diet, nutrition and health	Use a nutritional programme to calculate the nutritional information for various recipes. Understand the relationship between diet, nutrition and health – links to obesity, cardiovascular disease, skeletal disease, iron deficiency anaemia and Type 2 diabetes.	Completely new skill for students.		Numeracy – ability to analyse nutritional content. Links with PE and Science	CREATING Fluent thinking to create new dishes to analyse the nutritional content. REALISING Automaticity Speed and accuracy	
			Terms 3 and 4 (12 w	reeks)		
3.2 – Functional and chemical properties of food 3.2.1 Protein	The scientific principle underlying - Protein denaturation. Protein coagulation. Gluten formation. How foams are formed. when preparing and cooking food. The working characteristics,	Taught to illustrate to the students the importance of science within food and support NEA 1.	All areas assessed using the exam board specification. 3.2 assessed using low-stakes quizzes and summative exam questions.	SMSC – considering the science of food	META-THINKING ANALYSING Critical thinking Complex problem solving LINKING Generalisation Connection finding Seeing alternative perspectives EMPATHY	



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	functional and chemical properties of protein.					
3.2.2 Carbohydrates	Understand the scientific principles underlying the processes of gelatinisation, dextrinisation and caramelisation, when preparing and cooking food. The working characteristics, functional and chemical properties of carbohydrates.	Students will use what they have learnt in Term 1 – 1.1 to improve their understanding of how cooking nutrients links to science.			LINKING Generalisation Connection finding Seeing alternative perspectives EMPATHY AGILE	
3.2.3 Fats and Oils	The scientific principles underlying the processes of shortening, aeration, plasticity and emulsification when preparing and cooking food.				CREATING REALISING Automaticity Speed and accuracy AGILE	
3.2.4 Fruit and vegetables	The scientific principles underlying the processes of enzymic browning				CREATING REALISING Automaticity Speed and accuracy	



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	and oxidation when				AGILE	
	preparing and					
	cooking food.					
3.2.5 Raising	The scientific	New content			META-THINKING	
agents	principles underlying				ANALYSING	
	the processes of				Critical thinking	
	raising agents:				Complex problem solving	
	chemical (baking				LINKING	
	powder, bicarbonate				Generalisation	
	of soda, self-raising				Connection finding	
	flours which produce				Imagination	
	carbon dioxide)				Seeing alternative	
	Mechanical (whisking,				perspectives	
	beating, folding,				EMPATHY	
	sieving, creaming and					
	rubbing-in – all					
	incorporate air into					
	the mixture)					
	Steam is produced					
	when the water in any					
	moist mixture reaches					
	boiling point.					
	Biological (steam)					
4.1 Food spoilage	Recap work from				REALISING	
and contamination	September.				Automaticity	
4.1.2 The signs of	Micro-organisms and				Speed and accuracy	
food spoilage	enzymes and the					
	signs of food					
	spoilage.					



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4.1.3 Microorganisms in food production	moulds in the production of blue cheese • yeasts to raise bread • bacteria in yoghurt and cheese production.					
Cooking of Food and Heat Transfer 3.1.1 Why food is cooked and how heat is transferred to food	The reasons why food is cooked and the different methods of heat transfer. Food is cooked to: • make food safe to eat • develop flavours • improve texture • improve shelf life • give variety in the diet. How preparation and cooking affect the appearance, colour, flavour, texture, smell and overall palatability of food. How heat is		All areas assessed using the exam board specification. 4.1 assessed using low-stakes quizzes and summative exam questions.			



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3.1.2 Selecting appropriate cooking methods	transferred to food through:			FBV, other links		
	steaming, boiling, simmering, blanching, poaching, braising • dry methods: baking, roasting, grilling, dry frying • fat based: shallow frying, stir fry					



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	how preparation					
	and cooking affect					
	the appearance,					
	colour, flavour,					
	texture, smell and					
	overall palatability of					
	food eg the use of					
	marinades to					
	denature protein.					
			Term 5 & 6 (w	eeks)		
MOCK NEA 1	Students to practise			Literacy –	META-THINKING	
	working through the			extended analysis	ANALYSING	
	NEA 1 by completing			and writing tasks	Critical thinking	
	all sections.				LINKING	
	Section A – Research				Generalisation	
	6 marks				Imagination	
	Section B -					
	Investigation					
	15 marks					
	Section C -					
	Analysis & Evaluation					
	9 marks.					
4.3.1 Sensory	Sensory testing			SMSC -	META-THINKING	
Analysis	methods and how			environmental	ANALYSING	
,	taste receptors and			and social	Critical thinking	
	olfactory systems			concerns	LINKING	
					Generalisation	



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	work when tasting		All areas are		Connection finding	
	food.		assessed	Correct use of	EMPATHY	
	Importance of senses		formatively and	subject-specific		
	when making food		frequently using	terminology in		
	choices: sight, taste,		low-stakes quizzes,	ALL AREAS		
	touch and aroma		and using			
	• preference tests:		summative exam			
	paired preference,		questions after			
	hedonic.		each section is			
	• discrimination tests:		complete – 4.3			
	triangle.					
	• grading tests:					
	ranking, rating and					
	profiling					
	• how to set up a					
	taste panel					
	• controlled					
	conditions required					
	for sensory testing					
	 evaluating how 					
	senses guide					
	• evaluating a wide					
	range of ingredients					
	and food from Britain					
	and other countries					
	• how to test sensory					
	qualities of a wide					
	range of foods and					
	combinations.					



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4.2.1 British and International Cuisine	Students to understand British and 2 other cuisines - distinctive features and characteristics of cooking • equipment and cooking methods used • eating patterns • presentation styles • traditional and modern variations of recipes.			TDV, OUTET IIIIKS	META-THINKING ANALYSING Critical thinking Complex problem solving LINKING Generalisation Connection finding	

Exam preparation