3. Year 10 Curriculum Plan

YEAR 10	HALF TERM 3	SUBJECT Food Pi	reparation and Nutri	tion	LEARNING
TOPIC: Theory	LEARNING OBJECTIVES	KEY VOCABULARY	LEARNING SEQUENCE	LINKED LEARNING	HOME LEARNING
The Science of Food				This topic is linked to your learning in KS3.	See Firefly for weekly tasks.
Why Food is Cooked	Understand the reasons we cook food, with examples.	Baking	To list the reason, with examples of why we		End of Topic Test.
	-	Grilling	cook food.		GCSE Pod Learning
Heat Transfer	Understand Conduction, Convection and Radiation.	Roasting	Explain, in terms of		Resources.
	Convection and Radiation.	Roasting	particles: Conduction,		
		Conduction,	Convection and Radiation.		
		Convection			
Cooking Methods-	Describe, with examples:	Dadiation	Demonstrate water		
Water Based	Boiling, Steaming, Blanching, Simmering, and Poaching.	Radiation	based cooking methods.		
	January Guerring.	Denaturation			
Cooking Methods-Fat Based	Describe with examples, Roasting and Frying.	Coagulation	Demonstrate fat based		
baseu	Roasting and Frying.	Gelitinisation	cooking methods.		
		Dextrinisation			
Changing Properties-	Understanding the chemical and scientific reactions which	Caramelisation	Conduct a science experiment to show how		
PROTEIN	lead to protein denaturation.	Caramensation	protein denatures.		
		Aeration			
		Shortening			
CARBOHYDRATE	Understanding the chemical and scientific reactions which	Plasticity	Demonstrate how		
	lead to Gelitinisation,	riasucity	Gelitinisation, Dextrinisation and		
	Dextrinisation and	Emulsification	Caramelisation works in		
	Caramelisation.		class.		



		Chemical			
FAT and OIL	Understanding the chemical		Demonstrate how		
	and scientific reactions which	Biological	Aeration, Shortening,		
	lead to Aeration, Shortening,		Plasticity and		
	Plasticity and Emulsification.	Mechanical	Emulsification works in		
	Trasticity and Emaismeation.	Meenamean	class.		
		Microorganisms	Class.		
Daising Agents	Understand the different trues	Microorganisms	Decall the difference		
Raising Agents	Understand the different types	Dantania	Recall the difference		
	of Raising Agents and how they	Bacteria	between Chemical,		
	work in Food Science. Know		Biological, Mechanical		
	the difference between	Mould	and Steam Raising		
	Chemical, Biological,		Agents when making		
	Mechanical and Steam Raising	Yeast	food in practical lessons.		
	Agents.				
		Fermentation			
Use of	Know that Microorganisms are		Explain, with examples		
Microorganisms	living things which are useful in		how microorganisms are		
	food production. Explain how		used in the production of		
	Yeasts, Mould and Bacteria are		food products.		
	used in Food Science.				
Revision					
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TOPIC: Practical	LEARNING OBJECTIVES	KEY VOCABULARY	LEARNING SEQUENCE	LINKED LEARNING	HOME LEARNING

Cauliflower and broccoli cheese Swiss Roll	Knife skills – preparing florets Steaming vegetables – not overcooking Cheese sauce: Making a roux Thickening without lumps – sauce should be smooth and velvety Ensure cheese is melted and not stringy Well assembled – florets are evenly coated in cheese sauce Florets have kept their colour and still have a little bite (i.e. not soggy) Breadcrumb and cheese mix is prepared from scratch, and finished product is well gratinated Whisking method of cake making Even baking, well-risen and not burnt Rolled neatly, free from cracks Filled appropriately (more than solely jam) Well assembled with decorative finishes. Caramelisation/Aeration.	Seasonal Availability Primary Processing Secondary Processing Seasoning Food Processor Blender Gluten Kneading Proving Caramelisation Gelatinisation Roux Protein Dairy Denature Amino Acid	Development of practical skills and techniques.	Skills are developed from KS3 practical work.	Weekly buying, weighing, measuring and packaging of ingredients and equipment. Being fully prepared and organised to take part in weekly practical work. Students will be required to complete a weekly evaluation sheet via Firefly.
Burgers/Meatballs	Frying/Grilling: Dicing an onion Binding and forming equally sized meat patty shapes				

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	Cooking evenly and thoroughly			
	(minimum core			
	temperature of 75oC achieved)			
	temperature or 750c acmeveu)			
Vegetable and	Cutting vegetables into even			
halloumi kebabs with	sizes (to ensure even cooking)			
pesto dressing	Dicing ready prepared halloumi			
	into even sizes (to ensure even			
	cooking)			
	Skewering			
	Use of mini food processor or			
	pestle and mortar			
	- achieving correct texture (to			
	make pesto)			
Hollandaise sauce	Concreting one white and well-			
Holiandaise sauce	Separating egg white and yolk			
	Melting butter – not burning			
	Make an emulsion with egg			
	yolk and butter – free			
	from splitting and scrambling			
	Trom spricing and scrambing			