Curriculum Map

Food Preparation and Nutrition

Year 10

	What is being learnt?	Remote learning links
Autumn 1	Topic Areas	
	Course introductionKnife Skills recap	https://illuminate.digital/aqafood/
Macronutrients	 Protein Nutrition LBV and HBV excess deficiency Protein Science all different aspects coagulation, 	https://www.bbc.co.uk/bitesize/guides/znnqqhv/revision/1
and Food Science Protein, Fats and Oils	 foams gluten formation. Presentation with diagrams Scrambled egg Practical relating to initial food science including denaturation, coagulation and 	https://www.bbc.co.uk/bitesize/guides/znnqqhv/video
Knife skills	Dextrinisation.Protein and food science	https://www.bbc.co.uk/bitesize/guides/znnqqhv/test
Measuring and weighing Food presentation Whisking Kneading	 Denaturation Lemon Flan Practical (p108) denaturisation Gluten Formation Bread Rolls Practical (p112) Foams Meringues foams 	https://www.foodafactoflife.org.uk/
Carbohydrates	 Carbohydrates Nutrition excess deficiency sources and reasons the body requires them Carbohydrate Science 	

Autumn 2	Topic Areas	
	 Fats nutrition, sources functions excess deficiency 	https://illuminate.digital/agafood/
Fats and Oils	Chocolate Orange Cake Practical (p128)	
Raising Agents	Fat Science	https://www.bbc.co.uk/bitesize/guides/znnqqhv/revision/1
	Shortening	
Roux sauce,	Pastry Practical Pasties (p132)	
	• Aeration	https://www.bbc.co.uk/bitesize/guides/znnqqhv/video
Carbohydrates	 Emulsification what happens and how. Scientific 	
recap	explanation of this.	
Micronutrients	Heating Fats and Oils	https://www.bbc.co.uk/bitesize/guides/znnqqhv/test
Vitamins	Raising Agents	
Minerals	 Vitamins nutrition 	
Hydration	 Puff Pastry practical 	
	(https://www.bbcgoodfood.com/recipes/rough- puff-pastry)	https://www.bbcgoodfood.com/recipes/rough-puff-pastry
	 Micro nutrients – vitamins fat/water soluble Fat soluble: A,D,E,K 	https://www.foodafactoflife.org.uk/
	 Water Soluble: B,C and ACE (Antioxidant vitamins) 	
	 The functions • main sources • effects of deficiency and excess • related dietary reference values. 	
	 Water soluble: how preparation and cooking affect the nutritional properties of food. 	
	Swiss roll	
	 Antioxidant vitamins and function in the body ACE 	
	 Minerals 	

	 Minerals; Identifying all minerals required in the diet. calcium • iron • sodium (salt) • fluoride • iodine • phosphorus Hydration The importance of hydration and the functions of water in the diet Additional practical, fruit infused water/antioxidant salad 	
Spring 1	 Food poisoning, symptoms, causes and prevention. – Recall Food poisoning bacteria names and types. Food Safety- Legislation- Types of bacterial 	https://illuminate.digital/aqafood/
Food poisoning Food safety Food spoilage	 contamination. Mind map to show all possible causes of Bacterial contamination. Food Spoilage how bacteria, yeasts and moulds spoil 	https://www.bbc.co.uk/bitesize/guides/z77v3k7/revision/1
	food- Use of enzymes to prevent food spoilage – Enzymic Browning. Enzymes are biological catalysts usually made from protein.	https://www.bbc.co.uk/bitesize/guides/z77v3k7/video
	 Pasta and white sauce making (100g '00' Flour to 1 egg) Use of bacteria, acids, and microorganisms in food processing – cheese, yoghurt and milk. Demo homemade Cheese/ Video to explain mould used in 	https://www.bbc.co.uk/bitesize/guides/z77v3k7/test https://www.foodafactoflife.org.uk/
	 blue cheeses. Yoghurt- probiotic- Starter: Yakult video – healthy gut bacteria Meatballs and Ragu sauce Buying, preparing and storing food- conditions and ambient temperatures. The growth conditions for 	

	 microorganisms and enzymes and the control of food spoilage. Eaton Mess (raspberry fruit coulis and meringues) Reheating, thawing and preparing food, safety and prep. 	
Spring 2 Included within all other terms	 Why food is cooked and how heat is transferred to food. Conduction, Convection, Radiation, Marinated chicken and flatbreads grilled (chicken breast) 	https://illuminate.digital/aqafood/
work through practical tasks: Recap:	 Research task: The reasons why food is cooked and the different methods of heat transfer. Developing mind maps into explanation of why food is cooked. – plan Vegetable cooking experiment/ 	https://www.foodafactoflife.org.uk/
How food is cooked Why food is cooked	hypothesis and background information into each cooking method, predictions made. Student led research. • Food is cooked to:	https://www.bbc.co.uk/bitesize/guides/z7yttv4/revision/1
Heat transfer Why food is cooked Making food	make food safe to eatdevelop flavoursimprove texture	https://www.bbc.co.uk/bitesize/guides/z7yttv4/video
safe to eat (link to food safety)	 improve shelf life give variety in the diet. How preparation and cooking affect the appearance, colour, flavour, texture, smell and overall palatability 	https://www.bbc.co.uk/bitesize/guides/z7yttv4/test
Food choice Making informed food choices	of food. How heat is transferred to food through: • conduction • convection • radiation. • Bacon and fried egg roll Part baked bread roll egg	
Dietary guidelines	 and bacon, convection conduction breakfast Recap year 9 Dietary guidelines 	

Eight tips for healthy eating Eatwell guide	 A balanced diet to provide the correct combination of food and nutrients for good health The government's guidelines for a healthy diet and the inclusion of new regulations as they are issued Dietary needs for different stages of life Food allergies and intolerances Portioning chicken (choice chicken burgers breast coted fried) or chicken marinade legs and thighs) The dietary reference values (DRVs) Macronutrients and micronutrients Calculation of nutritional values Factors which influence food choice- Energy needs Nutritional analysis. Food a fact of life explore food. Create a meal for teenagers based on dietary guidelines Mind map of food choices- Adding to food choices- Adding to food choices- main content- scenario lesson to explain and justify why individuals eat certain dishes and explain with examples. Major diet related health issues and the relationship between diet putrition and health. Becap from year 0 	https://www.bbc.co.uk/bitesize/guides/z7fw7p3/revision/1 https://www.bbc.co.uk/bitesize/guides/z7fw7p3/video https://www.bbc.co.uk/bitesize/guides/z7fw7p3/test
Summer 1 Religion and food choice Ethical choices Food production	 Food choice related to religion, culture, ethical and moral beliefs and medical conditions. Curry: Marinating meat Fact finding research- share information on tables on different religions. Ethical and moral beliefs Food labelling and marketing influences: 	https://illuminate.digital/aqafood/

	How information about food available to the	
Food labelling	consumer, including labelling and marketing,	https://www.bbc.co.uk/food/cuisines
Marketing	influences food choice: Traffic light labelling	inteps.//www.bbc.co.uk/100u/cuisines
ivial ketilig	lesson- decisions on law and non-law identifying	
British and	requirements on labels- quiz on how this can	https://www.bbc.co.uk/bitesize/guides/zdr8y9q/revision/4
	influence- real life deals	nttps://www.bbc.co.uk/bitesize/guides/zur8y9q/revision/4
international		
cuisine	How labels influence food choice	
	British and international cuisines: IT bases	https://www.bbc.co.uk/bitesize/guides/zdr8y9q/video
Modifying and	research to create a presentation on how	
varying recipes	different cultures cook, eat, and different	
	traditions.	
	 Chelsea buns (enriched dough) 	
Food a fact of	 Distinctive features and 	
life explore	 characteristics of cooking 	
food	 equipment and cooking 	
	 methods used, eating patterns, presentation 	
	styles, traditional and modern	
	 variations of recipes. 	
Summer 2		https://www.foodafactoflife.org.uk/
	 Food Sources- where and how ingredients are 	
Environmental	grown, reared and caught. Card sort of caught	
impact and	reared of grown- quiz on PowerPoint,	https://www.bbc.co.uk/bitesize/guides/zks8jty/revision/1
sustainability	explanations of each, video on Farm to fork –	
Food	Presentation of each type of food source	
production and	 Food and the environment: 	https://www.bbc.co.uk/bitesize/guides/zks8jty/video
processing	 Discover which foods are in season and 	
Food waste	understand logos to show sustainability	
	Differences between buying local foods and	
	supporting farmers and food miles. – students to	
	complete food mile task of different food.	https://www.bbc.co.uk/bitesize/guides/zks8jty/test
	complete rood time task of afficient rood.	

Nea1 Practice	seasonal foods • sustainability e.g. fish farming •	
task:	transportation • organic foods • the reasons for	
Pastry	buying locally produced food • food waste in the	
Chanaina	home/ food production/retailers • environment	
Changing	issues related to packaging • carbon footprint.	
butter	Sustainability of food- Computer based research	
Changing flour	task to produce information leaflet on how to	
	become more sustainable.	
Use of sensory	The challenges to provide the world's growing	
testing kits	population with a sustainable, secure, supply of	
		www.dailymotion.com/video/x3c4g04
	Students must have an awareness of: • climate	
	change • global warming • sustainability of food	
	sources • insufficient land for growing food •	
	availability of food • fairtrade • problems of	
	drought and flooding • Genetically Modified	
	` '	www.bbc.co.uk/bitesize/guides/zks8jty/revision/3
	Food processing and production:	
	Primary and secondary stages of processing and	
	production. how processing affects the sensory	
	and nutritional properties of ingredients-	
	research task and information.	
	 Quiz on how different foods are processed. 	
	Technological developments associated with	
	better health and food production:	
	 cholesterol lowering spreads • health benefits of 	
	fortification • fortified foods: thiamin, niacin,	
	calcium and iron added to white flour • folic acid	
	and iron added to breakfast cereals • vitamins A	
	and D added to fats and low fat spreads • the	

positive and negative aspects of the use of additives: colourings, emulsifiers and stabilisers, flavourings, and preservatives • the positive and negative aspects of Genetically Modified (GM) foods.

NEA1 PRACTICE

- NEA1 practice task. Pastry Different butters flour timings. Use of sensory testing kits
- Excel for graphs
- Scientific write up of results
- Use of Illuminate bundle for layout and guidelines.

https://www.bbc.co.uk/teach/class-clips-video/design-and-technology-gcse-how-our-sense-guide-food-choices/z78fbdm

https://illuminate.digital/agafood/