Food Science & Nutrition Year 8 - Unit 1

Intent - Rationale

Students should have an understanding of Health and Safety in the Food room and building on from prior learning in year 7 students acquire more advanced knife skills, understanding of sauce making. Students will continue to plan and make composite dishes in line with the Eatwell guide.

Sequencing – what prior learning does this topic build upon?	Sequencing – what subsequent learning does this topic feed into?
Year 7 Food Safety / Health & Safety / previous rotations	Year 9- research / independent work
Use of equipment	Health & Safety / Food safety in all years and life skills
Planning of time	Health and Safety in Textiles and resistant Materials in
Food Miles	rotations 2 & 3.
	GCSE Food and Nutrition
What are the links with other subjects in the curriculum?	What are the links to SMSC, British Values and Careers?
Science – bacteria / raising agents	Differentiation (GB3)
 Maths – weighing / measuring / portioning 	Problem solving; independence; resilience; encouraging
 Art / Technology – design 	creativity; communication skills; confidence; organisation (GB4,
 Geography – different cuisines. 	SP, SO, C)
	Assessment for learning (GB8)
	Routine and structure (M)
What are the opportunities for developing literacy skills and developing learner confidence and enjoyment in reading?	What are the opportunities for developing mathematical skills?

Reading instructions / recipes
Research
Writing evaluations
Subject specific vocabulary
FROM THE LIBRARY
Dictionary of Food; Charles Sinclair-641.5
Cooking a Meal; R. Matthews-641
The Basic Cookbook; L.Pagett 641.55
Weighing/ Measuring / costing
Ratio's in pastry/sauce making

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Intent – Concepts

What knowledge will students gain and what skills will they develop as a consequence of this topic?

Know

Students will gain knowledge about raising agents: Biological, Chemical & Mechanical
They will understand how some ingredients work together scientifically; how & why some recipes may work or not following change & adaptation. They will develop practical skills in sauce making to demonstrate Gelatinisation, sponge making, creating products through the application of this knowledge skills.

Apply

This knowledge and skills will be applied to the making of a pasta dish with sauce, bread products, sponge cakes, allowing students to adapt and change recipes to the needs of the end consumer e.g. Coeliac / Vegetarian

Extend

Developing Evaluation skills to identify areas of improvement, the acceptance of feedback and the use of a wider range of descriptive words when planning for feedback and taste testing

What subject specific language will be topic?	used and developed in this	What opportunities are available for assessing the progress of students?	
 Gelatinisation Kneading & Proving Composite dishes Biological, Chemical & Mechanical Raising Agents Fermentation 	 Risk Safety Hazards Hygiene Food Poisoning Cross Contamination 	Outcomes & Key work for assessment: Research; evaluating; finished product. Regular marking of class and home work Mid project review Final assessment of completed rotation.	

Intent - Concepts

- 1				
- 1	Lesson title	Learning challenge	Higher level challenge	Suggested activities and resources
- 1	LC33011 title	Learning chancinge	ringiter level chancinge	Juggested activities and resources

1.	Safety in the	Use of key words /	Application to the	'V' is for vegetable workbook – complete the
	Kitchen	identify key words /	classroom environment	worksheets pg1,2, 3
		spelling / corrections		Identify the fire blankets and fire extinguishers in the
		spelling / corrections		room
2.	The Milling	Understand the stages of	Recall the process/ Make	Cereal & Cereal Products –
	Process	primary processing	independent choice s of	https://www.bbc.co.uk/bitesize/guides/zks8jty/revision/3
		primary processing	recipe	complete worksheet. Plan for practical of cereal based
			resipe	product. Time plan required
3.	Cereal Products	Independent Practical /	Portioning/ team work /	Independent practical lesson – own choice of cereal
		time constraints/ making	presentation / peer	based product. Recap evaluation skills/ peer assess
		_	review	products
4.	'Macro Nutrient	Planning for CHO as main	Understanding the	Carbohydrates' Students to mind map / list their present
	'Carbohydrate	source of energy, link to	scientific make up of	understanding of this macronutrient / to research the
	·	Eatwell Guide. Identify	Carbohydrates.	reasons why we need these. (Sugar / Starch / Dietary
		types of CHO	•	Fibre)
5.	Gluten	Team work to show the	Recording findings in	To use the samples of flour & water to investigate the
		presence of gluten using	structured manner – use	presence of gluten in different flours – use instructions
		equipment provided	of annotation / photos	issued & record findings
6.	Importance of	Understanding the	Being able to adapt and	Research the importance of fibre in the diet – key words
	Gluten	importance of gluten in	change a recipe to suit	Digestive System / Constipation/ wholegrain. Ss to plan
		bread making.	family/end user's needs.	for practical fibre -rich bread. T led discussion: Coeliac
			,,	Disease – alternative flours & possible results.
7.	Ideal conditions	Working in groups to set	Writing a hypothesis and	T led – investigation into the ideal conditions for
	for Fermentation	up and execute effective	analysing results of	Fermentation using Yeast. Use of test tubes, racks,
		investigation using yeast.	investigation	balloons, sugar, water, salt, vinegar. Ss set up
		Show understanding of		investigation, take photos and time results.
		how fermentation takes		
		place.		

Q Droad Drastical	Vacading of dough to	Do able to shape and	Dractical Investigation into ideal conditions for
8. Bread Practical	Kneading of dough to	Be able to shape and	Practical Investigation into ideal conditions for
	help the production of	portion the dough into	fermentation to occur.
	gluten.	rolls or twists.	Practical –bread products. Quick recipe so fast action of
	Successfully produce a		yeast. (Warm room)
	basic bread that has risen		Key Terms: kneading / rising/ proving/ shaping. T led
	well and held its		explanation of Fermentation – used raising agent
	structure.		
9. Composite Dish	Applying prior learning	Producing dish to	Practical – Pizza Recipe sheet & time plan
	Use of key terms,	demonstrate a balance of	Using knowledge from prior lesson to adapt to
	selection of ingredients	nutrients, portioning,	produce a pizza of own choice.
	to demonstrate	time constraints.	Focus on 'composite' dish/ presentation / timing
	'composite' dish	Removal of proving time.	
10. Chemical,	Identify different	Identify the reactions of	Using 'V' is for vegetable booklet/ computers/
mechanical,	categories of raising	the chemical raising	textbooks Ss to produce a table to explain the 3
biological raising	agents – biological – link	agents with ingredients /	categories / include examples.
agents	to prior learning,	select based on suitability	Plan for practical using mechanical & chemical
	chemical, mechanical.	for the dish.	raising agent – small cakes.
11. Chemical and	Ss using electricals	Explaining the stages,	Ss- practical making small cakes to demonstrate the
Mechanical	whisks to incorporate air	functions of ingredients	use of chemical and mechanical raising agent.
Raising agents in	to produce a light & airy	and how they react to	Presenting for peer review. T led discussion as to
use	sponge. Understanding	maintain the structure in	texture – successes & failures.
	how to incorporate air.	raw & cooked state.	