Food Science Scheme of Learning Year 9 Rotation UNIT 2

Intent - Rationale

Students will apply prior learning linked to the Eatwell Guide, Nutrition and Healthy Eating. Adapting and changing recipes in line with the demands of the end consumer Students will cook a variety of dishes incorporating theoretical understanding and knowledge: Choux Pastry / savoury Pies/ Vegetarian and Vegan Dishes/ Homemade Pasta & Sauce

Sequencing what prior learning does this topic build upon?	Sequencing - w	rhat subsequen	t learning does this topic feed into?
Using learning from year 7& 8 – Eatwell Guide/ Government Guidelines Use of Food P6 for Nutritional Analysis Seasonal Foods / Food Miles Skills in year 7 & 8 What are the links with other subjects in the curriculum?	 GCSE Food Preparation & Nutrition – Science, Nutrition and practical skills Life Skills What are the links to SMSC, British Values and Careers? 		
 Geography – Food Miles / Seasonality Maths – Calculations / weighing / measuring Science – nutrients/ functions of ingredients PSHE – Nutrition 	BV4 BV5	GB4a GB4b GB4g GB4d GB4i	SP1,2,3,4 M2,3 SO1, 3 C2, 4
What are the opportunities for developing literacy skills and developing learner confidence and enjoyment in reading?	What are the opportunities for developing mathematical skills?		
 Presentation skills Reading and following instructions Independent Research FROM THE LIBRARY Olive- Monthly magazine How Does my Diet Affect Me; P. Westcott-613.2 	 Costing Weighing / Measuring Portioning 		

Nutrition and Diet; Lisa Firth-613.2

Healthy eating For Kids- A. Bean-664

Eating Right: Making Healthy Choices; T.Orr-613

Looking at Vegetarianism- D.Donnellan- 179

Try it-eat More Veg- C. Humphries-641

Vegetarian Diets- L. Firth-641.56

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Intent – Concepts

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

Know

Needs of the special diets, adaptation of recipes and nutritional awareness of needs within a range of categories.

The controls for making a range of pastry products through research, demonstration and practical.

How to build on skills from year 8- creaming, whisking and folding with higher skilled dishes

How the science behind fats, sugar and flour can impact he outcomes of basic recipes.

<u>Apply</u>

Students will carry out group research to identify the needs of specific consumer groups and use this information to plan for practical work, based upon the four key dietary needs evident in the UK, Vegetarian, Vegan, Coeliac and Diabetes. They will use food P6 to produce food labels to evidence the nutritional content of the dishes.

Research techniques to discover the full range of pastry products, dishes each can be used for, focus on the making of short crust pastry.

Developing skills of from Year 8 of small cake making, to produce a higher skill dish, adapting for preferences and dietary needs.

Extend

Through evaluation and analysis of outcomes to identify areas of improvement to the practical dishes and adaptation of nutritional content.

To involve a panel of taste testers to develop the Organoleptic outcomes of dishes

hat subject specific language will be used and developed in this topic?		What opportunities are available for assessing the progress of students?	
 Gelatinisation Gluten Lamination Coeliac Coronary Heart Disease Athlete 	 Protein/ Amino Acids Nutritional Analysis Vegetarian / Vegan Diabetes Shortening Sauces – blended/ roux / all in one Hypothesis 	 Homework tasks Practical Outcomes Mid project Reviews Written outcomes End of Project Reviews. Presentations 	

<u>Intent – Concepts</u>

Lesson title	Learning challenge	Higher level challenge	Suggested activities and resources
1. Dietary Needs	To develop knowledge and	Knowing how and when to apply	Students to research vegetarian
	understanding of specific group	terminology Using correct	and vegans- how to categorise

		1	
	and their basic dietary need –	terminology for groups and	vegetarians. What potential
	Vegetarian and Vegan diets	nutrients	deficiencies may be found?
2. Advice for Dietary Needs	Know how to plan for individual	Know how to reference the	Students to complete research,
	needs, balancing the diet over a	Eatwell guide to guide meal	produce a 5- or 7-day meal plan
	week.	planning	
3. Planning Practical Needs	Developing the knowledge and	Knowing and applying application	Planning for practical work for
	application of for selecting	Justification of choices	Vegetarian/ Vegan – use meal
	appropriate dishes / time		plans to select from & produce
	awareness		FOOD P6
4. Dishes for Vegetarian/	Showing knowledge of working	Presentation skills / Finishing	Practical work – 1 dish for either
Vegan	within time scale / Food Safety /	Techniques	vegetarian or vegan
	Health & Safety		
5. Bring the Science to	Group work- develop knowledge	Group work – investigation into	Group to find recipes, write
Food!	and understanding of how to	the adaptation of recipes.	hypothesis, produce shopping list,
	carry out an investigation into	Justification of reasoning with	feedback sheets. Any work not
	the adaptation of recipes.	scientific explanation, using and	completed to be HWK
		incorporating the methods used	
		in science lessons for	
		investigations.	
6. Is the Hypothesis	Developing knowledge of how to	Group Practical and taste testing,	Working in previously identified
correct?	write a Group Practical and	use higher level terminology,	groups, to carry out practical
	understand the term predictions'	develop the knowledge of these	work, control taste testing.
	and apply to investigation	terms 'Hypothesis'	Photos to be taken at each stage.
7 Carlina Diagram 0	Lada a a da al Cad Cad a Cada a la alla	Lada a a da al Carl Cada a la	Write up findings for hwk
7. Coeliac Disease &	Independent fact finding for both	Independent fact finding to	Students to produce fact sheet to
Diabetes, more common than	of these areas. What do each	identify the deficiencies and	identify and share
before!	involve/ categories/ food groups	implications	
O Canadation / Catal	required / avoided?	Complete / setab confusion	Lada a a da ada a su a da da a a constata a
8. Completion / Catch up	Complete / catch up from	Complete / catch up from	Independently work to complete
	previous lessons	previous lessons	outstanding work

9. Practical Coeliac or Diabetic adaptation	Apply prior knowledge of cross contamination to prepare dishes safely suitable for chosen category.	Apply prior knowledge with a focus on portion control, cross contamination and nutritional value to produce dish	Practical work – students to produce a dish suitable for Diabetic or Coeliac in line with the findings of research
10.Pastry	Know the range of possible pastry's and apply dishes to these	To know & understand different skill levels with different pastry's, being able to give examples.	Research / Mind Mapping pastry's/ suitable recipes for each. Rules for Short Crust Pastry 14. Recipes for Savoury Pie
11. Shortening	Application of the knowledge of the rubbing in technique 9gainedf rom year 7), using the golden rules of making	Production of 'Short' pastry with focus on finishing techniques, demonstrating the knowledge and skills previously developed to a higher level.	Making of Short Crust Pastry, use to make a dish of own selection
12. Functions of ingredients. Aeration, Caramelisation and dextrinisation.	Recall of learning from year 8, to develop skills for more complex dishes. Awareness of H&S for hot syrup.	To also focus on the finishing techniques / presentation skills.	Students to produce an upside pudding. With a focus on the understanding of the functions of ingredients.
13. Group work – science of food.	Knowledge of further caramelisation & dextrinisation	Students able to share knowledge and understanding of from investigation work with others. To be able relate understanding of caramelisation & dextrinisation to a range of products.	Students to return to group work, to summarise previous findings, and prepare to present findings. Students to produce visual method of understanding of caramelisation & dextrinisation.

14. Catch up and completion	To revisit outstanding work, use feedback from others to develop written work.	To revisit and extend responses following feedback from last lesson to deepen understanding and responses.	Students to work independently to revisit and complete book work
15. Final Practical	To revisit and improve a previous dish – explaining why and what needs to be developed.	Select a topic and select alternative or similar dish to produce- justification of decisions.	Independent student practical to use a previous topic or dish to develop / change with written justification for choice of recipe.