### Food Technology 5 Year Curriculum Plan

Author: Neisha Morris-Walcott

Updated:



### Teaching and Learning Vision

### *Knowledge is power. Information is liberating.* Kofi Annan

At Smith's Wood Academy, we believe all students, whatever their background, are able to become **experts** in the disciplines that they study. Their expertise will be achieved through quality teaching and the dissemination of deep knowledge by highly skilled and knowledgeable subject experts. The Mastery approach to teaching will prevail – in every classroom, every lesson, every day.

Our students have the right to be introduced to **deep knowledge** and a **wealth of information** from the spectrum of subjects that they study. They will be introduced to, and understand, theories and principles that have influenced, continue to influence, and will influence in the future, the world in which they live. They will be prepared to fully engage in academic discussion about their learning.

This learning will secure a successful place in society for our students. They will go further than they ever thought possible.

### Teaching and Learning Vision for the Food Technology Department

To promote healthy eating and drinking habits across the whole school community. To foster passion and success for the Food Technology and create opportunities for both pupils and staff to develop and master their culinary skills. To promote cultural awareness and tolerance through food production and testing.'

### We can turn every learner into a Food Technologist

At the end of Year 11 students in Food Technology will....

Know and understand
• The major commodity groups – staple foods, fruits and vegetables, milk and dairy foods,
meat fish, eggs, and other non- dairy sources of protein, foods and drinks high in sugar
and fat.
<ul> <li>The relationship between diet and health- government healthy eating guidelines, the</li> </ul>
importance of healthy eating, eat well guide and diet related diseases as it relates to
poor diet.
• Nutritional and dietary needs of different groups of people- dietary needs of children,
toddlers, pre-schoolers, pregnant women, elderly and lactating women.
Understanding of the dietary needs of people with special dietary needs ad it relates to
allergies- lactose intolerance, coeliac, nut allergies.
Understanding of dietary reference values – how to calculate and adapt recipes to
<ul> <li>ensure that DRV's of different groups are met during planning and preparation of food.</li> <li>Understand the factors that affect the energy needs of individuals- Be able to calculate</li> </ul>
<ul> <li>Understand the factors that affect the energy needs of individuals- Be able to calculate the BMR and PAL of different groups. Know the unit for measuring energy. The effects of</li> </ul>
energy imbalance can have on health.
<ul> <li>Nutrients- function, types, food sources and deficiency diseases of all macro and</li> </ul>
micronutrients including water.
<ul> <li>Food Provenance- food sources production and farming techniques arguments for and</li> </ul>
against different farming techniques.
1. Fishing- where and how fish is caught, sustainable fishing, classification of
fish.
2. Meat and poultry- farming techniques, intensive farming, free range,
classification of meat and poultry.
<ol><li>Cereals, fruits and vegetables- classification of fruits and vegetables,</li></ol>
organic vs non-organic, locally and seasonal fruits and vegetables.
Food production and processing- primary and secondary processing of flour, dairy
products, bread and pasta.
• Food preservation- UHT, drying, smoking, acids, sugars and salts, CAP, MAP, AFD, cold
temperature preservations.
<ul> <li>Food security- Moral, ethical, carbon foot print, sustainability, environmental factors issues affecting food production.</li> </ul>
<ul> <li>Technological development in food production- Use of additives, fortifications, emerging</li> </ul>
foods (probiotics and prebiotics), and consumer issues surrounding pros and cons.
<ul> <li>International cuisine- production understanding of British cuisine and two other cuisines.</li> </ul>
understanding impact of religion, culture, cooking equipment on each cuisine.
<ul> <li>Factors affecting food choice-personal, medical, religious, moral, economics, social,</li> </ul>
ethical issues.
Food science- reason why food is cooked.
1. Heat transfer- conduction, convection and radiation.
2. Working properties of food ( chemical and functional)- key vocabulary as it
relates to changes that occur during cooking and production processing

(carbohydrates, fats and oils, protein, fruits and vegetable, raising agents)

Working characteristics of functional foods



- Sensory analysis of foods- using range of sensory testing panels (rating, ranking, profiling) and appropriate descriptive language.
- Food Safety- conditions and control of bacteria growth, signs of food spoilage
  - 1. Buying and storage of foods, preparation of foods.
  - 2. Cooking and serving of foods
  - 3. Types of bacteria
  - 4. High risk foods.
  - 5. Personal hygiene and safety.
- Food Safety and the law consumer laws and regulations surrounding the handling ad preparation of foods. Consumer rights purchasing of food products.

### Be able to demonstrate the following skills:

- **Knife skills-** in preparation of meat, fish and vegetables. Bridge and claw method, dice, slice, peel, chop, grate (julienne, batons).
- Cooking methods/ competent use of cooker.- demonstrate competently ability to prepare a variety of dishes using a range of cooking methods steaming, boiling, frying, grilling, poaching, casseroles, roasting, braising.
- **Competently using a range of specialist equipment-** whisk, pastry cutters, dough machine, mixer, blender, fryers, food processors etc.
- Sauce making- understanding the process to make roux, curry, hollandaise, emulsion, gravies, infused, meat sauce, béchamel veloute.
- Raising agents- use of yeast, baking powder/soda, egg whites, and steam.
- Set mixture- layered desserts, coagulation, quiche, choux pastry.
- Sensory analyse and adapt recipes- adapt recipes throughout practical to improve taste texture and appearance.
- Food preparation using a wide range of food commodities.
- Food presentation- portion control and garnishing of food products.
- Weighing and measuring- of liquids and solids
- Test for readiness- use temperature probe, skewer, knife, poke test, visual, colour and sound test.



#### Have been exposed to the following texts

#### Books

OCR GCSE Food Preparation & Nutrition by Val Fehners. My revision notes OCR GCSE Food & Nutrition Anita Tull Range of recipe books. Professional Cookery by David Foskett, NEIL RIPPINGTON, Patricia Paskins New Larousse Gastronomique

#### Website

www. BBBC Bitesize (revision)

www.Food Standards Agency.co.uk

#### TV Programmes/ documentaries

BBC- supermarket secrets

Have been exposed to the following knowledge and theories that span beyond the GCSE specification

Professional Cookery by Book by David Foskett, NEIL RIPPINGTON, Patricia Paskins, and Steve

New Larousse Gastronomique

Indian Food: A Historical Companion by K. T. Achaya

# Developed their cultural and social capital through the following extra-curricular work

- Food clubs
- Competitions.
- Enterprise Days( breakfast and lunch mornings)
- Vegetarian Society visit and workshops.
- Royal Academy of Chefs visits and work shop.
- Trip to Birmingham indoor market research on fish, meat and fruits and vegetables.



### 5 Year Curriculum Plan

planning	h's Wood Year 7 Food Technology curriculum prepares all pupils to demonstrate effec g and preparing and cooking using a variety of food commodities, cooking technique ould be able to by the end of year & understand the relationship between diet health at.	s and equipment.
Year 7	7 Units of Study	Length of unit
Unit 1	Food Safety Topics covered: Conditions for growth of bacteria- Food temperature zones Causes of food poisoning Personal hygiene rules Symptoms of food poisoning Rules for food hygiene	2 lessons
Unit 2	Relationship between diet and health         Topics covered:         Government healthy eating guidelines         Food traffic light and eat well guide         Diet related illness caused by poor diet         Factors contribute to heart disease         How to reduce risk of heart disease         Diabetes- Type1 and Type 2         Reducing sugar in the diet.         Increasing fruits and vegetables	4 lessons
Unit 3	Macro nutrients (Carbohydrates & Protein) Carbohydrates	10 lessons

	Topics covered :         Function of carbohydrates         There are three main groups of carbohydrates         Starch- function         Food sources of starch         Different types of sugar         Food Sources of sugar         Excess carbohydrates in diet         Dietary fibre function.         Food sources of fibre.         Protein         Topics covered :         Function of protein-         High biological value protein (HBV) and low biological value protein (LBV).         Food sources of LBV protein         Low biological value protein-         Food sources of LBV protein         Complimentary protein-         Protein	
Unit 4	Macro nutrients (Fats) Topics covered : Function of Fat Saturated and unsaturated fats. Food sources of saturated fats Unsaturated Fats- Monounsaturated fats Polyunsaturated fats Essential fatty acids Reducing fat in diet	4 lessons
Unit 5	Testing/ Assessment Pupils will an end of rotation test covering topics covered throughout rotation.	1 lessons

### SMITH'S WOOD ACADEMY

V a avr O							
	Food Technology at Smith's Wood Academy						
	s Wood Year 8 Food Technology curriculum prepares all pupils to demonstrate effective and safe						
-	ills by planning and preparing and cooking using a variety of food commodities, cooking techniques						
and equipment.							
	In the able to understand and articulate the factors that affect an individual's diet and health.						
	d the economic, environmental ethical and socio- cultural influences on food availability, production and diet and health choices.						
	Ind understand the nutritional needs of a variety of different groups and be able to plan and prepare						
	would meet the dieter reference values of these groups having an understanding of energy						
	e and related health issues.						
	Units of Study	Length of unit					
Unit 1	Food Safety	2 lessons					
	Conditions for growth of bacteria-	210330113					
	Food temperature zones						
	Causes of food poisoning						
	Personal hygiene rules						
	Symptoms of food poisoning						
	Rules for food hygiene						
Unit 2	Factors influencing food choices	6 lessons					
	Topics covered:						
	Factors affecting food choices.						
	Personal, social and economic factors include						
	Medical and health reasons.						
	Marketing, promotions and advertising include						
	Religious and cultural beliefs includes						
	Ethical and moral beliefs include						
Unit 3	Nutritional needs of different dietary groups	6 lessons					
	Topics covered:						
	Dietary needs of different life stages-						
	Factors affecting dietary needs						



	Lowering sugar Lowering fat Lowering salt	
Unit 4	Micronutrients (Vitamin C, Iron and Vitamin D) Topics covered: Vitamin C function Vitamin C food sources Deficiency disease Vitamin C Iron function Iron food sources. Deficiency disease Iron Vitamin D function Vitamin D food sources Deficiency disease Vitamin D Water function	6 lessons
Unit 5	Signs of dehydration Testing/Assessment	1 lessons
	Pupils will an end of rotation test covering topics covered throughout rotation.	
Year 9	Food Technology at Smith's Wood Academy	
The Smith's preparing Pupils shou and micro	Wood Year 9 Food Technology curriculum prepares all pupils to demonstrate effective and safe cooking skills b and cooking using a variety of food commodities, cooking techniques and equipment. Id be able to understand and demonstrate knowledge and understanding of functional and nutritionals proper piological considerations when preparing, processing, storing, cooking and serving foods. Id be able identify and explain the pros and cons of a variety of food production methods and impact on consu	ties, sensory qualities
Year 9	Units of Study	Length of unit
Unit 1	Food Safety Topics covered:	3 lessons

	Conditions for growth of bacteria-	
	Food temperature zones	
	Causes of food poisoning	
	Personal hygiene rules	
	Symptoms of food poisoning	
	Rules for food hygiene	
Unit 2	Food Provenance	14 lessons
	Topics covered:	
	Classification of cereals	
	Nutrients found in cereals	
	Draw and label diagram of cereal.	
	Classification of fruits	
	Classification of vegetables-	
	Disadvantage of locally produced fruits and vegetables	
	Classification of meat	
	Animal welfare in terms of food production	
	Egg production	
	Benefits of organic farming.	
	Red tractor food standards	
	Classification of fish	
	Fishing methods	
	Benefits of fish	
	Disadvantage of fish farming	
Unit 3	Food Processing and production	9 lessons
	Topics covered:	
	Advantages and disadvantages of preserving foods	
	High temperature methods of preserving foods	
	Low temperature methods of preserving foods	
	Chemical method of preserving food	
	Modified atmospheric packaging and vacuum packaging	
	Advantages of cook chill foods	
	Reasons for increase in frozen foods	
	MILK	
	Varieties of milk	

	Primary processing of milk	
	Different types of butter	
	Different type of cream	
	Cheese	
	Process of cheese making	
	Categories of cheese	
	Wheat	
	Different type of flour	
	Structure of wheat	
Unit 4	Food Security	3 lessons
	Topics covered:	
	Genetically modified foods.	
	Carbon footprint	
	Sustainable farming	
	Organic Free range	
	Eco footprint	
Unit 5	International Cuisine	8 lessons
	Topics covered:	
	Preparation of British and Italian dishes.	
	Understanding of British and Italian cuisine common spices foods and cooking methods.	
	Understanding of regional foods.	
Unit 6	Testing/Assessment	1 lesson
Year 1	0 Food Technology at Smith's Wood Academy	
The Smith	's Wood Year 10 Food Technology curriculum prepares all pupils to demonstrate effective and safe cookin	g skills by planning and
	and cooking using a variety of food commodities, cooking techniques and equipment. Demonstrate kno	
	iding of functional and nutritional properties, sensory qualities and microbiological food safety consideration	
	g, storing and serving food.	
Pupils sho	uld be able to explore ingredients and processes from different culinary traditions both British and internatio	onal and use these cuisines
to inspire	them to modify and create new recipes.	
		Longth of whit
rear I	0 Units of Study	Length of unit

Unit 1	Food Safety and hygiene	3 lessons					
Unit 2	Nutrition/ Nutrients/ diet and health						
		14 lessons					
Unit 3	Food provenance/ Food commodity	12 lessons					
Unit 4	Food security	3 lessons					
Unit 5	Food processing and food production	5 lesson					
Unit 6	International Cuisine	5 lessons					
Year 1	1 Food Technology at Smith's Wood Academy						
preparing understand processing Pupils shou to inspire th Pupils shou ingredients Pupils shou	The Smith's Wood Year 11 Food Technology curriculum prepares all pupils to demonstrate effective and safe cooking skills by planning and preparing and cooking using a variety of food commodities, cooking techniques and equipment. Demonstrate knowledge and understanding of functional and nutritional properties, sensory qualities and microbiological food safety considerations when preparing, processing, storing and serving food. Pupils should be able to explore ingredients and processes from different culinary traditions both British and international and use these cuisines to inspire them to modify and create new recipes. Pupils should have acquired the skills to test a range of dishes use their scientific knowledge to adapt recipes and manipulate the properties of ingredients and effectively complete both their investigative and food preparation task. Pupils should be able to consolidate their learning and be able to successfully achieve their GCSE.						
Year 1	1 Units of Study	Length of unit					
Unit 1	Food Safety	2 lessons					
Unit 2	2 Food Science-Investigative task (CA) 10 lessons						
Unit 3	Skills and presentation/ Food commodity and cuisines	8 lessons					
Unit 4	Culinary traditions- Food Preparation Task (CA)	12 lessons					
Unit 5	Revision	8 lessons					



### 5 Year Curriculum Plan Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn Term 1 Rotation 1	Unit 1 Food Safety	Unit 1 Food Safety	Unit 2 Diet and Health	Unit 2 Diet and Health	Unit 2 Diet and Health	Unit 2 Diet and Health	Unit 3 Macro nutrients <b>carbohydrate</b>
Autumn Term 2	Unit 3 Macro nutrients <b>carbohydrate</b>	Unit 3 Macro nutrients <b>carbohydrate</b>	Unit 3 Macro nutrients <b>carbohydrate</b>	Unit 3 Macro nutrients <b>carbohydrate</b>	Unit 3 Macro nutrients <b>Protein</b>	Unit 3 Macro nutrients <b>Protein</b>	Unit 3 Macro nutrients <b>Protein</b>
Spring Term 1	Unit 4 Macro nutrients <b>Protein</b>	Unit 3 Macro nutrients <b>Protein</b>	Unit 3 Macro nutrients <b>Fat</b>	Unit 3 Macro nutrients <b>Fat</b>	Unit 3 Macro nutrients <b>Fat</b>	Unit 3 Macro nutrients <b>Fat</b>	Unit 5 Assessment/ Testing
Spring Term 2 Rotation 2	Unit 1 Food Safety	Unit 1 Food Safety	Unit 2 Diet and Health	Unit 2 Diet and Health	Unit 2 Diet and Health	Unit 2 Diet and Health	Unit 3 Macro nutrients <b>carbohydrate</b>
Summer Term 1	Unit 3 Macro nutrients <b>carbohydrate</b>	Unit 3 Macro nutrients c <b>arbohydrate</b>	Unit 3 Macro nutrients <b>carbohydrate</b>	Unit 3 Macro nutrients <b>carbohydrate</b>	Unit 3 Macro nutrients <b>Protein</b>	Unit 3 Macro nutrients <b>Protein</b>	Unit 3 Macro nutrients <b>Protein</b>
Summer Term 2	Unit 3 Macro nutrients <b>Protein</b>	Unit 3 Macro nutrients <b>Protein</b>	Unit 3 Macro nutrients <b>Fat</b>	Unit 3 Macro nutrients <b>Fat</b>	Unit 3 Macro nutrients <b>Fat</b>	Unit 3 Macro nutrients <b>Fat</b>	Unit 5 Assessment/ Testing



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn Term 1 Rotation 1	Unit 1 Food Safety	Unit 1 Food Safety	Unit 2 Factors affecting food choice	Unit 2 Factors affecting food choice	Unit 2 Factors affecting food choice	Unit 2 Factors affecting food choice	Unit 2 Factors affecting food choice
Autumn Term 2	Unit 2 Factors affecting food choice	Unit 2 Factors affecting food choice	Unit 3 Micro nutrients <b>Vitamin C /Iron</b>	Unit 3 Micro nutrients <b>Vitamin C/Iron</b>	Unit 3 Micro nutrients <b>Vitamin C/Iron</b>	Unit 3 Micro nutrients <b>Vitamin D</b>	Unit 3 Micro nutrients <b>Vitamin D</b>
Spring Term 1	Unit 4 <b>Vitamin E&amp;K</b>	Unit 4 <b>Vitamin E&amp;K</b>	Unit 5 Dietary needs of different groups	Unit 5 Dietary needs of different groups	Unit 5 Dietary needs of different groups	Unit 5 Dietary needs of different groups	Unit 5 Assessment/ Testing
Spring Term 2 Rotation 2	Unit 1 Food Safety	Unit 1 Food Safety	Unit 2 Factors affecting food choice	Unit 2 Factors affecting food choice	Unit 2 Factors affecting food choice	Unit 2 Factors affecting food choice	Unit 2 Factors affecting food choice
Summer Term 1	Unit 2 Factors affecting food choice	Unit 2 Factors affecting food choice	Unit 3 Micro nutrients Vitamin C /Iron	Unit 3 Micro nutrients Vitamin C /Iron	Unit 3 Micro nutrients Vitamin C /Iron	Unit 3 Micro nutrients Vitamin C /Iron	Unit 3 Micro nutrients Vitamin C /Iron
Summer Term 2	Unit 4 Vitamin E&K	Unit 4 Vitamin E&K	Unit 5 Dietary needs of different groups	Unit 5 Dietary needs of different groups	Unit 5 Dietary needs of different groups	Unit 5 Dietary needs of different groups	Unit 5 Assessment/ Testing



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
	Unit 1 Food	Unit 1 Food	Unit 1 Food	Unit 2	Unit 2	Unit 2	Unit 2
Autumn Term 1	Food hygiene	Food hygiene	Food hygiene	Food	Food	Food	Food
	and safety	and safety	and safety	Provenance	Provenance	Provenance	Provenance
	Unit 2	Unit 3	Unit 3				
Autumn Term 2	Food						
	Provenance	Provenance	Provenance	Provenance	Provenance	Processing	Processing
						Unit 5	Unit 5
Spring Term 1	Unit 4	Unit 4	Unit 4	Unit 5	Unit 4	International	International
sping term i	Food Security	Cuisine	Cuisine				
	FOOD SECULIY					(British)	(British)
	Unit 5	Unit 5	Unit 5	Unit 5	Unit 6	Unit 6	Unit 6
Spring Term 2	International	International	International	International	Factors	Factors	Factors
spring renn z	Cuisine	Cuisine	Cuisine	Cuisine	Influencing	Influencing	Influencing
	(British)	( Italian)	(Italian)	(Italian)	food choices	food choices	food choices
		Unit 6	Unit 6	Unit 6	Unit 7	Unit 7	Unit 7
	Unit 6	Factors	Factors	Factors	Dietary needs	Dietary needs	Dietary needs
Summer Term 1	Factors	Influencing	Influencing	Influencing	of different	of different	of different
	Influencing	food choices	food choices	food choices			
	food choices		1000 CHOICES	1000 CHOICES	groups	groups	groups
	Unit 7	Unit 7	Unit 7	Unit 7			
	Dietary needs	Dietary needs	Dietary needs	Dietary needs	Unit 8		
Summer Term 2	of different	of different	of different	of different	Assessment/		
	groups	groups	groups	groups	Testing		
		910003	910003	910003			



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn Term 1	Unit 1 Relationship between diet and health	Unit 1 Relationship between diet and health	Unit 1 Nutrition and dietary groups.	Unit 1 Energy balance	Unit 2 Protein	Unit 2 Fat	Unit 2 Carbohydrates
Autumn Term 2	Unit 2 Vitamins and minerals	Unit 2 Food provenance	Unit 2 Food provenance	Unit 2 Food provenance	Unit 2 Food provenance	Unit 3 Food security	Unit 3 Food security
Spring Term 1	Unit 3 International Cuisines <b>French</b>	Unit 3 International Cuisines <b>Chinese</b>	Unit 3 International Cuisines <b>American</b>	Unit 3 International Cuisines <b>British</b>	Unit 3 International Cuisines <b>Indian</b>	Unit 4 Food commodity	Unit 4 Food commodity
Spring Term 2	Unit 4 Food commodity	Unit 4 Food Science	Unit 4 Food Science	Unit 5 Food Analysis	Unit 5 Food Analysis	Unit 6 Investigative task	Unit 6 Investigative task
Summer Term 1	Unit 6 Investigative task	Unit 7 Food processing and production	Unit 7 Food processing and production	Unit 7 Food processing and production	Unit 7 Food processing and production	Unit 8 Short task	Unit 8 Short task
Summer Term 2	Unit 8 Short task	Unit 8 Short task					



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn Term 1	Food Safety	Food Safety	Food Investigative Task	Food Investigative Task	Food Investigative Task	Food Investigative Task	Diet and Health
Autumn Term 2	Diet and Health	Diet and Health	Skills preparation and development <b>Knife skills</b>	Skills preparation and development <b>Cooking</b> <b>methods</b>	Skills preparation and development <b>Sauces</b>	Skills preparation and development <b>Cake making</b>	Skills preparation and development <b>Dough making</b>
Spring Term 1	Skills preparation and development	Technological developments in food production	Technological developments in food production	Technological developments in food production	International Cuisines <b>Mexican</b>	International Cuisines <b>Chinese</b>	International Cuisines S <b>panish</b>
Spring Term 2	International Cuisines <b>Caribbean</b>	Practical CA task	Practical CA task	Practical CA task	Practical CA task	Revision exam	Revision exam
Summer Term 1	Revision exam	Revision exam					
Summer Term 2							