

**KS4 Curriculum Map** 

Subject

**GCSE Food Preparation and Nutrition** 

Year 10 Autumn 1	Year 10 Spring 1	Year 10 Summer 1
Introduction to the course, set expectations (Learners Agreement),	Commodity: Cereals (flours, breakfast cereals, bread and pasta)	Commodity: Butter, oils, margarine, sugar and syrup
target grades, how learners will be assessed.	Wheat, oats, rice, maize, barley. Look at how cereals are grown,	fats & oils classification, functions in body. Energy dense Saturated and
A balanced diet - Eatwell Guide & 5 a day.	harvested and processed. General structure of grain – endosperm,	unsaturated fats - chemical composition & sources. EFA Omega 3 & 6.
Basic nutrition – 5 main nutrients - 3 macronutrients & 2	germ and bran. Cereal as a staple food -focusing on wheat and rice.	Traffic light labelling
micronutrients. Plus fibre: non-Starch Polysaccharides (NSP) & water.	Milling of wheat into flour	Oils/margarine – growing of vegetable crop for oil production, include
Eatwell guide, 5 a day and 8 tips for healthy eating.	Nutritional content of cereals	pressing (mention fish oil)
Commodity: Fruit and vegetables, including potatoes (fresh, frozen,	Fortification of cereals	Primary processing: Oil,
dried, canned and juiced) – nutritional content.	Link secondary processing to selected cereals: Wheat – flour	Secondary processing: Butter, margarine,
Practical: Fruit Cobbler - Mise en place, independence, organisation,	wholemeal, white, self-raising, semolina, etc. Rice – brown, white,	Hydrogenation of oils to produce hard fats – health implications.
accuracy, hygiene, safety.	basmati, Arborio, rice flour, rice vinegar, etc. Oats – rolled, oatmeal.	Implications of a diet high in saturated fat Making sensible choices on
Practical: Cauliflower &/or Broccoli au gratin (roux sauce)	Cereal – as a staple food; impact of crop failure on health of a nation	fat type (unsaturated, etc.) Lower fat alternatives Fat soluble vitamins
Skills – Julienne, Brunoise, Macedoine, Jardinière, Paysanne	(link to sustainability and world health)	- link to Eatwell Guide - tips.
NEA 1 practise -experiments to test enzymic browning (written brief).	Storage of cereals	Functions of fats & oils in cooking. Plasticity, shortening (link to
Hypothesis	Strong plain flour - gluten formation (discuss gluten free bread),	pastry), emulsification. Melting point/smoke point.
Writing aims and planning for experiments. Conducting experiments,	dextrinization	NEA 1 practise -PPE 1 experiments to test creaming properties of
recording results, writing conclusions.	Breadmaking: • Scientific principles, functions of ingredients, yeast as	different fats in small cakes (written brief). Extended research.
Dietary guidelines and dietary reference values.	a raising agent.	Hypothesis
Range of life stages identifying nutrients needed for each life stage	Conditions required by yeast to produce CO2 - experiments	Writing aims and planning for experiments. Conducting experiments,
with reasons.	NEA 1 practise -experiments to test gluten content of different types	annotating photographs, recording results, writing conclusions.
Specific dietary needs - including coeliac disease, diabetes 2, dental	of flour (written brief). Hypothesis	NEA 2 practise -PPE 1 Plan, prepare, cook and present three dishes
caries, obesity, cardio vascular disease (CVD), coronary heart disease	Writing aims and planning for experiments. Conducting experiments,	that could be served at the street food /music festival analyse task
(CHD), cholesterol & liver disease, nut allergies, lactose intolerance.	recording results, writing conclusions.	Plan of action - summarise what plan to do
NEA 2 practise - Main meal for teenager using vegetables - analyse task	Practical: Bread calzones and salad	Research ideas - research background & tasks to do
Plan of action - summarise what plan to do	Principal of fortification of food in the context of flour and breakfast	Results and analysis of research - list key findings
Research ideas - research background & tasks to do	cereals Water soluble vitamin B group – effect of cooking	Final dish and reasons for choice - link to task & research findings,
Results and analysis of research - list key findings	Practical: Chicken or Quorn Gougere (choux pastry)	discuss skills, sensory expectations, time management
Final dish and reasons for choice - link to brief & research findings,	NEA 2 practise -Savoury pasty and risotto (cereal dishes containing	Shopping list, Time plan & order of work.
discuss skills, sensory expectations, time management	fibre) - analyse task	Trialling one dish for PPE NEA 2 Class Practical
Shopping list, Time plan & order of work	Plan of action - summarise what plan to do	
Storage of fruit and vegetables. Preservation of fruit and vegetables -	Research ideas - research background & tasks to do	
types of preservation and examples. Group preservation activities.	Results and analysis of research - list key findings	
Ripening, spoilage and decay.	Final dish and reasons for choice - link to brief & research findings,	
Food handling and hygiene – critical temperatures affecting bacterial	discuss skills, sensory expectations, time management	
growth. Freezer below -18°C, fridge below 4°C, Danger Zone 5 to 63°C,	Shopping list, Time plan & order of work	
heat above 75°C. Use of temperature probe.	Practical: Homemade Tagliatelle with ragu (pasta making)	
Types of vegetarian lacto-ovo, lacto, vegan – moral & environmental		
reasons.		
Religion, culture and food choices.		

Commodity: Milk, cheese and yoghurt.	Commodity: Meat, fish, poultry, eggs	Chemical composition of sugars. Composition of sugar -
Animal sources of milk. Local V nationally distributed & imported.	Look at and compare geographical areas where meat, fish, poultry	monosaccharides (glucose/dextrose, fructose, galactose);
Cost & impact on milk prices for farmers. Food miles, why organica	and eggs are reared/produced. Local verses imported (e.g. Welsh	disaccharides (glucose + fructose=sucrose, glucose +
Food wastage and sustainability	lamb verses New Zealand lamb, North sea fishing verses southern	galactose = lactose, glucose + glucose = maltose).
Different animal sources (also non-dairy milk e.g. nut, soya,	hemisphere fishing, local eggs verses imported eggs from Europe)	Food miles (UK verses imported sugar )Where sugar cane
coconut; alternatives to non-dairy cream). Types of milk skimmed,	Intensive farming verses natural farming Link to animal welfare.	and sugar beet is grown. Fair Trade - positives & negatives.
semi-skimmed, etc. Primary processing - pasteurisation	Links in with provenance. How animals are slaughtered –	Primary processing: sugar
Preserving milk (drying, condensed, evaporated). Importance of	traditional and Halal.	Secondary processing: sugar syrups
hygiene for effective food safety (heat treatment). Nutritional	Practical: Portioning chicken, slicing breast for stuffed chicken	Sugar and syrup Empty calories, link to weight gain, obesity,
content of milk products - effect on nutritional content from	breasts and marinated roasted chicken wings (freezing thighs for	dental caries, type 2 diabetes, etc.
processing.	chasseur)	Glycemic Index (GI) and Free sugars - explanation and
Storage of milk and milk products – reasons	Choosing cuts of meat and poultry, processing into bacon, ham,	examples. Consider sugar alternatives, including natural
Practical: Quiche or Sweet cheese tart	sausages, pies, etc. (link to methods of preservation) Offal – types	sugars & artificial sweeteners.
Secondary processing – milk to cream, yoghurt, cheese action of	and uses.	PPE NEA 2 3hour Practical Exam -Plan, prepare, cook and
rennet.	Cooking methods for meat & poultry. Chemical and physical	present three dishes that could be served at the street food
Benefits of bacteria in the making of yoghurt, cheese, etc.	structure of meat, fish, poultry and eggs. Denaturation (e.g.	/music festival. Dovetailed time plan -Mise en place,
Different types of cheese – hard, soft, etc. (link to fat content) -	uncoiling of protein molecules when making meringues)	independence, organisation,
cow, goat, sheep, buffalo.	Coagulation (e.g. setting of egg in cakes) Foaming (e.g. formation	Accuracy, hygiene, safety
Planning NEA 1 practise - making yoghurt - Hypothesis	of foam when whisking egg white protein) Aeration Connective	Evaluation – suitability for task, evaluation of skills,
Writing aims and planning for experiments. Conducting	tissue in meat and fish – how this should affect the cooking	comparison to peers and restaurant dishes, improvements,
experiments, recording results, writing conclusions.	method. Maillard reaction. Nutritional content of meat.	sensory analysis.
Practical: Chilled cheesecake - Gelation (use of gelatine)	How egg farming is conducted caged (battery), barn, free range	Commodity: Soya, tofu, beans, nuts, seeds
Chemical and physical structure of dairy based products	(different animal sources as well as hens eggs). Eggs – pasteurised	How peas, beans (pulses/legumes), nuts and seeds are
Emulsion – (fat dispersed in liquid) Denaturation and coagulation	whole/white/yolk (link to fod safety and convenience) Lion mark	grown
of milk proteins.	on egg - British. Nutrient content of eggs.	Secondary processing: Beans (legumes) – link to
Different types of cream – whipping, double, clotted, soured, etc. (	Functions of eggs - aeration, binding, coating, glazing, emulsifying,	preservation (drying and canning). Nuts – ground, flaked,
fat content) Making butter, – the science behind it.	thickening, enriching, garnish	nibbed, etc. Seeds – drying, etc.
NEA 2 practise -Sponge pudding & crème Anglaise	Planning NEA 1 practise – conditions affecting coagulation of eggs	How soya beans are cultivated
Plan of action - summarise what plan to do	in egg custard - Hypothesis	Secondary processing: How soya is processed into tofu
Research ideas - research background & tasks to do	Writing aims and planning for experiments. Conducting	TVP (textured vegetable protein), and link back to soya milk
Results and analysis of research - list key findings	experiments, recording results, writing conclusions.	Include: mycoprotein (Quorn TM) – what it is derived from,
Final dish and reasons for choice - link to brief & research findings,	Practical: Trimming chicken thighs & removing end joint from	how it is processed into mycoprotein.
discuss skills, sensory expectations, time management	chicken drumstick for chicken chasseur with potato dish & 2	Food provenance - logos on labels - fair trade, sustainable
Shopping list, Time plan & order of work	vegetables	fish meanings and implications. Seasonal foods and
Practical: Rough Puff pastry Cheese Christmas Tree	Compare sea fish and farmed fish (link to fish quotas &	sustainability.
Sensory Analysis -Types of analysis - Cheese tasting -	availability/ethical fishing – Marine Stewardship Council, etc.)	PPE 1 Written Exam
identifying cheese	How fish (inc shellfish) is caught – reference sea fish and farmed	Class Practical: Swiss Roll – whisked sponge.
End of term test - based on topics covered so far	fish. Types of fish – white and oily. Cuts	Basic recipes research project for holiday homework.
Year 11 Autumn 1	Year 11 Spring 1	Year 11 Summer 1

research project. Students share their work. Recap on key principles of how to conduct NEA. Love food love science video 'How to Begin an Investigation' Go through the mark scheme and how to be successful in NEA 1 – Food Science Assessment (research methods, hypothesis setting, plan of action, writing up an experiment, analysis results of experiment and drawing conclusions, referencing sources) – generic information. Practical - Related to NEA 1 Task. Introduce NEA 1 Task – Food Science Assessment. Individual work - underline key words in task. Students explain what it means. What is focus? What could be investigated? Discuss time scale and planning. NEA 1 - analysing task and writing aim, identifying possible research methods. NEA 1 – linking science research to task – underlying scientific principles and how to test them during the practical investigations. NEA 1 – Plan of action – step by step for practical investigations, selecting suitable control and variables. NEA 1 – Ingredients and equipment list, step by step method. NEA 1 – langredients and equipment list, step by step method. NEA 1 – lan for results collection – results chart, sensory analysis star, Munsell chart, rating or ranking consumer test and any other tests related to specific task. NEA 1 – conducting practical investigations over 3 lessons, recording results, taking photographs of process and outcomes, analysing results of experiment, drawing conclusions and planning of further investigations. NEA 1 – Final conclusions, explanation of results applying scientific principles related to task, reviewing and evaluating hypothesis, suggesting further investigations.	rejection for final dishes with reasons related to task. NEA 2 – Deciding on 3 final dishes and accompaniments with reasons for choice - link to task and research findings, discuss skills, sensory expectations, time management. NEA 2 - Shopping list of all ingredients – colour coded. NEA 2 – Equipment list – colour coded. NEA 2 – dovetailed time plan and order of work (real time) for 3 hour practical exam with hygiene, safety and quality points. Each dish colour coded.	areas identified in PPE 1, 2 and 3.
Year 11 Autumn 2	Year 11 Spring 2	Year 11 Summer 2

Revision task - produce resource based on one topic area on priority revision list. Present results to rest of group. Practice question – based on topic area from PPE 1 results that requires more revision then modelling answer as class and compare to mark scheme then add extra information. Introduce NEA 2 – Food Preparation Assessment Task. NEA 2 – individual work - analyse task, underline key words in task. Students explain what it means. What is focus? What could be researched? Discuss time scale and planning. 3 dishes plus accompaniments to be prepared, cooked and served in 3 hours. Showcasing technical skills. NEA 2 - Plan of action - summarise what plan to do NEA 2 - Research ideas - research background & tasks to do PPE 2 - written exam. NEA 2 - Results and analysis of research - list key findings PPE 2 - exam feedback and focus on questions requiring improvement, model answers. NEA 2 - Suggesting 8 potential trial dishes – related to task and research results. NEA 2 - Practicals – making trial dishes over 3 lessons – evaluation of each dish with decision on selection or rejection for final dishes with reasons related to task.	NEA 2 – Final evaluation of 3 dishes and accompaniments including sensory profile stars, analysis of suitability for task, evaluation of skills demonstrated, comparison with restaurant dishes and those made by other students, suggested improvements with reasons. Preparation for PPE 3 written exam – priority revision, practice questions. PPE 3 written exam. PPE 3 – exam feedback and focus on questions requiring improvement, model answers. Revision – selected topics requiring more information or weak areas identified in PPE 1, 2 and 3. Revision – exam question starters then lesson focus selected topics requiring more information and/or weak areas identified in PPE 1, 2 and 3.	selected topics requiring more information and/or weak areas identified in PPE 1, 2 and 3. Written exam.
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