

SOW	Food Safety	Commodity: Fruit & Vegetables	Commodity: Cereals	Dietary Needs	Commodity: Dairy	Cooking methods & Cuisines	Raising agents & sensory testing
Key knowledge	To know: <ul style="list-style-type: none"> how to store foods safely the importance of date marks conditions and controls for enzymic browning the signs of food spoilage the role of temperature in the control of bacteria types of bacterial contamination how to prevent bacterial contamination preservation methods signs & symptoms of food poisoning environmental and financial impacts of food waste the positive use of microorganisms in food production 	To know: <ul style="list-style-type: none"> the different vegetable classification groups the 4 main fruit groups how to store fruits and vegetables safely primary and secondary processing methods intensive versus organic farming nutritional content cooking methods effects of processing on foods the role of micronutrients in the diet problems of excess and deficiency of micronutrients 	To Know: <ul style="list-style-type: none"> common staple foods nutritional content storage requirements types of pastry and their ingredients functions a range of cereal crops nutritional content of cereals types of pasta types of oats nutritional content of oats storage requirements of oats complex carbohydrates in the diet sugars/syrups and nutrition storage requirements of sugars and syrups 	To know: <ul style="list-style-type: none"> a range of life-stages specific dietary needs specific lifestyle needs specific religious food beliefs how nutrients work together in the body BMR - basal metabolic rate PAL - physical activity levels common dietary issues recommended guideline for a healthy diet how to plan balanced diets 	To Know: <ul style="list-style-type: none"> different types of milk primary and secondary processing of milk environmental concerns relating to dairy farming different types of cheese different types of yoghurt different types of cream Nutritional content of a range of dairy products storage requirements for a range of dairy products high risk foods 	To know: <ul style="list-style-type: none"> why food is cooked how heat is transferred a range of cooking methods know British & International Cuisines 	To know: <ul style="list-style-type: none"> the ability of additives to achieve the desired effect the functional properties of raising agents know the types of raising agents the types of sensory testing what sensory testing is along with its importance
Key Skills	To be able to: <ul style="list-style-type: none"> Identify key storage temperatures Show the difference between date marks Identify the signs of food spoilage and show how to prevent it Discuss the negative impact of food waste On the environment & how to prevent it Explain the positive use of microorganisms in food products Identify the causes of enzymic browning and show how to prevent it Describe & explain the types of food contamination Discuss microbial food safety principles food safety Identify the types of food poisoning bacteria & discuss their sources 	To be able to: <ul style="list-style-type: none"> Identify the 9 vegetable groups with examples for each Discuss the different fruit groups with examples Show the correct storage requirements for fruit & vegetables Identify primary & secondary processing of fruit & vegetables Explain the farming methods used for fruit & vegetables Identify the functions and sources of micronutrients in the diet Identify how to avoid problems associated with excess and deficiency of macronutrients in the diet Produce a mini-NEA to GCSE standard Show competent knife skills Prepare fruit & vegetables Select & adjust a cooking process Weigh & measure accurately Accurate & correct selection & use of equipment Use dry heat cooking methods Use water-based cooking methods Use the oven Test for readiness Judge & manipulate sensory properties explain how processing affects the sensory properties of ingredients 	To be able to: <ul style="list-style-type: none"> explain where staple foods originate and their uses describe the nutritional content of a range of cereal crops explain the storage requirement for a range of cereal crops discuss the types and importance of complex carbohydrates identify the differences between sugars and syrups explain their function in the diet Select & adjust a cooking process Weigh & measure accurately Accurate & correct selection & use of equipment Use dry heat cooking methods - baking Use water-based cooking methods - boiling/simmering use the hob use the oven - baking use fat-based cooking methods - sauté make and knead a bread dough use the rubbing-in method prepare, combine and shape make sauces - reduction Test for readiness Judge & manipulate sensory properties 	To be able to: <ul style="list-style-type: none"> identify life stages for toddlers, teenagers. adults, elderly identify how nutritional needs change through each of these life-stages describe & explain different nutritional needs and their links to good health discuss energy and why it is needed Define and calculate BMR Discuss the different PAL levels between age groups plan balanced meals to meet specific requirements 	To be able to: <ul style="list-style-type: none"> identify and describe the different types of milk and how they are processed (primary) explain how cheese/yoghurt/cream are secondary processed products discuss the nutritional content of a range of dairy products Identify the storage requirements for a range of dairy products Use foaming - tres leches cake/chocolate mousse use natural raising agents - gougeres Select & adjust a cooking process Weigh & measure accurately Accurate & correct selection & use of equipment Use dry heat cooking methods - baking set a mixture - gelatinisation prepare, combine and shape Test for readiness Judge & manipulate sensory properties 	To be able to: <ul style="list-style-type: none"> Explain why food is cooked Use sensory descriptors when evaluating food Explain how conduction/convection/radiation work in heat transfer Select and use appropriate cooking methods Identify dishes from British Cuisine Identify dishes from international cuisines Cook dishes from different cuisines 	To be able to: <ul style="list-style-type: none"> Describe the differences between chemical, mechanical and biological raising agents Use mechanical raising agents to produce profiteroles Use sensory descriptors accurately Conduct, analyse and evaluate sensory tests Select & adjust a cooking process Weigh & measure accurately Accurate & correct selection & use of equipment Use dry heat cooking methods - baking Shaping a pastry dough Set a mixture – coagulation Make a pastry dough
	Tier 3 key vocabulary	Tier 3 key vocabulary	Tier 3 key vocabulary	Tier 3 key vocabulary	Tier 3 key vocabulary	Tier 3 key vocabulary	Tier 3 key vocabulary
Subject specific	<ul style="list-style-type: none"> Cross-contamination Autolysis Microbial spoilage Oxidation Denature Catalysts Microorganisms Pathogens 	<ul style="list-style-type: none"> Provenance Intensive farming Primary processing Secondary processing Antioxidants 	<ul style="list-style-type: none"> Staple foods Wheatgerm Extraction rate Milling Kneading Proving Blind baking Fermentation Cereal crops Fortification Coeliac Gluten Maize Genetically Modified Macronutrient Monosaccharides Disaccharides Plaque 	<ul style="list-style-type: none"> PAL - physical activity level BMR - basal metabolic rate Obesity Intolerance Diabetes Coeliac CHD - coronary heart disease Anaemia Caries 	<ul style="list-style-type: none"> Lactose intolerance homogenisation Pasteurisation Gelatinisation Fermented Foaming 	<ul style="list-style-type: none"> Conduction Convection Radiation Cuisines Sautéing Braising 	<ul style="list-style-type: none"> Raising agents Bias Hedonic testing Preference testing Attribute profiles Coagulation

SOW	Meat, fish, poultry & eggs	Factors affecting food choice	Fats & Oils	Food Science	NEA 1	NEA 2
Key knowledge	<p>To know:</p> <ul style="list-style-type: none">the role of protein in the dietthe structure of each commodity & how this affects cooking methodsprimary and secondary processing methodsthe concept of 'traceabilityclassifications of fishpreparation & cooking techniquesfarming methodsstorage requirementsfunctions in cookingcommon meat alternatives <p>the changes meat undergoes during cooking</p>	<p>To know:</p> <ul style="list-style-type: none">the range of factors affecting food choice – religious/ethical/moral/dietarythe reasons people make choices about foodshow to make informed choices about foodhow information about food is available to the consumerhow food provenance affects the environmenthow to produce food sustainablythe issues concerning food packaging & labellingthe positive & negative use of additivesthe technological developments that support food processing & production	<p>To know:</p> <ul style="list-style-type: none">the types, composition & sources of fat in the dietfunction of fats in the dietnutritional content of fats & oilsstorage requirements	<p>To know:</p> <ul style="list-style-type: none">functional properties of carbohydrates – dextrinization, caramelisation, gelatinisationfunctional properties of proteins – denature, coagulation, foaming, glutenfunctional properties of fats – aeration, shortening, plasticity, emulsification	<p>To know:</p> <ul style="list-style-type: none">how to research a given topic using a range of sourcesthe working, functional and chemical properties of given ingredientsa range of practical investigations suitable for the taskhow planning and a hypothesis form part of an investigationhow findings inform future choices and investigationshow to analyse findingshow to evaluate findingshow to evidence practical investigations with photographshow to produce a report supporting your investigation	<p>To Know:</p> <ul style="list-style-type: none">how to research a given topic using a range of sourcesthe working, functional and chemical properties of given ingredientsa range of suitable dishes for the chosen taska range of high-level cooking skills/techniqueshygiene and safety rules for planning, preparing and cooking dishesthe stages of making for each dish chosensuitable presentation techniques for the chosen dishessuitable portion sizes for the chosen dishesa range of sensory testing techniqueshow to analyse chosen dishes/skillshow to evaluate chosen dishes/skillshow to produce a report supporting your task
Key Skills	<p>To be able to:</p> <ul style="list-style-type: none">Describe the structure of each commodityExplain how the structure affects cooking methodsDescribe & explain Primary processing for each commodityDescribe & explain traceabilityExplain storage requirementsDiscuss nutritional contentIdentify classifications of fish with examplesDescribe preparation & cooking methods for each commodityExplain the changes meat undergoes during cookingDiscuss the function & importance of eggs in cookingDescribe & explain the importance of protein in the dietIdentify examples of common meat alternativesDiscuss different farming methodsUse sensory descriptors accuratelyConduct, analyse and evaluate sensory testsSelect & adjust a cooking processWeigh & measure accuratelyAccurate & correct selection & use of equipmentUse knife skillsPrepare combine and shape/formTenderise & marinadeUse water-based cooking methods – boiling, poachingUse dry heat & fat- based methods using the hob – shallow fryingUse the oven – bakingMaking sauces – roux/veloutéUse raising agents – whisking egg whitesTesting for readinessJudge & manipulate sensory properties	<p>To be able to:</p> <ul style="list-style-type: none">Describe & explain the factors affecting food choiceDiscuss how food provenance affects the environmentDiscuss the impact food has on local & global markets – food sustainabilityShow how to cost a recipeIdentify issues concerning food packaging & labellingEvaluate the influence of marketingDiscuss the positive & negative effects of the use of additives during food manufactureDescribe & explain the technological developments that support food processing & production	<p>To be able to:</p> <ul style="list-style-type: none">Describe the composition of a range of fats & oilsIdentify the sources of fats in the dietDiscuss the nutritional content of fats & oilsExplain the safe storage requirements of fats & oilsDiscuss the function of fats in the diet	<p>To be able to:</p> <ul style="list-style-type: none">Discuss the functional properties of fat, protein & carbohydratesDemonstrate how the Maillard reaction worksDemonstrate how sugars caramelizeDemonstrate the formation of foams & how they are stabilisedDemonstrate coagulation & how it is causedDemonstrate the creaming method and the best fats/temperatures to useDemonstrate shortening & which fats are more suitable to achieve this	<p>To be able to:</p> <ul style="list-style-type: none">Concisely research information relevant to the given task using a range of sourcesAccurately plan the task using the researchInvestigate the working, functional and chemical properties of the given ingredientsWrite a hypothesis with more than one variableUse practical investigations to prove/disprove your hypothesisRecord data using tables/photographsUse findings to achieve your resultsAnalyse and evaluate the taskProduce a concise report to support your investigative task	<p>To be able to:</p> <ul style="list-style-type: none">Concisely research information relevant to the given task using a range of sourcesInvestigate the working, functional and chemical properties of the given ingredientsChoose and trial a range of suitable dishes for the taskEvaluate the trialled dishesSelect and modify final dishes showing a range of high-level skillsProduce a detailed, dovetailed time planCarry out a 3-hour practical exam to produce and present chosen dishesConduct a range of sensory testing on chosen dishesAnalyse results and present findingsCompare own dishes with othersSelf-evaluate chosen dishes/skillsMake realistic suggestions for improvementsProduce a concise report to support your practical task
	Tier 3 key vocabulary	Tier 3 key vocabulary	Tier 3 key vocabulary	Tier 3 key vocabulary	Tier 3 key vocabulary	Tier 3 key vocabulary
Subject specific	<ul style="list-style-type: none">StructureRearedCollagenElastinTenderiseSlaughterNon-enzymic browning/Maillard reactionFunctional properties	<ul style="list-style-type: none">ProvenanceCarbon emissionsClimate changeFairtradeSustainabilitySeasonalityLocally producedIntolerancesAllergiesEthicsSocial influencesEconomic influencesWelfareFood assuranceAdvertising & marketing	<ul style="list-style-type: none">PlasticityShorteningEssential fatty acidsCholesterolCHDSaturatedUnsaturated	<ul style="list-style-type: none">SaccharidesMonosaccharidesDisaccharidesPolysaccharideGlucoseFructoseGalactosesucroseLactoseMaltoseGlycogenCellulosePectinMaillard reactionDextrinisationCaramelisationGelatinisation	<ul style="list-style-type: none">HypothesisFunctional propertiesChemical propertiesWorking characteristicsEvaluateAnalyse	<ul style="list-style-type: none">Functional propertiesChemical propertiesWorking characteristicsEvaluateAnalyse