

CHS Computing and Technology 2023/2024 GCSE Food Preparation and Nutrition

Year 11	AUTUMN NEA 1: Food investigation (30% of coursework grade)		SPRING	SUMMER Exam Preparation
			NEA 2: Food preparation assessment (70% of coursework grade)	
	NEA 1 Task	Mock Examinations and Assessment	NEA 2 Task	Study Skills for Food Preparation and Nutrition
Declarative What should they know?	 During this NEA task Students' will evidence their understanding of the working characteristics, functional and chemical properties of ingredients. This task links to Food Science (studied in Year 10) Cooking of food and heat transfer Why food is cooked and how heat is transferred to food. Selecting appropriate cooking methods Functional and chemical properties of food Proteins protein denaturation gluten formation Carbohydrates gelatinisation 	 Students will be completing the first of their Year 11 mock exam assessments. These assessment papers are exam board papers designed to assess students' knowledge and understanding form across the course and from prior learning. Topics include: Food, nutrition and health – Macro Nutrients, Micronutrients, Nutritional Needs and Health. Food science – Cooking of food, Heat Transfer and the Functional and Chemical Properties of Food. Food safety – Food Spoilage, Contamination and the Principles of Food Safety. Food choice – Factors affecting Food Choice, 	During this NEA task Students' will evidence knowledge, skills and understanding in relation to the planning, preparation, cooking, presentation of food and application of nutrition related to the chosen task. Students will prepare, cook and present a final menu of three dishes within a single period of no more than three hours, planning in advance how this will be achieved. This task evidences student's food preparation and nutrition skills covered throughout their practical lessons. Skills: Students must know how and when these food preparation skills can be applied and combined to achieve specific outcomes. Skill 1: General practical skills • Weigh and measure • Prepare ingredients and equipment. • Select and adjust cooking times. • Test for readiness • Judge and modify sensory properties. Skill 2: Knife skills • Fruit and vegetables • Meat, fish or alternatives Skill 3: Preparing fruit and vegetables. • Preparing fruit and vegetables. • Preparing fruit and vegetables.	 Food Nutrition and Health Macronutrients (fats, protein, carbohydrates) Micronutrients: Vitamins (fat soluble, water soluble, antioxidant functions). Minerals (calcium, iron, sodium, fluoride, iodine, phosphorus) Water Nutritional needs and health Making informed choices for a varied and balanced diet Energy needs Nutritional analysis Diet, nutrition and health Food Science Cooking of food and heat transfer Functional and chemical properties of food (proteins, carbohydrates, fats, fruit and vegetables, raising agents) Food Safety Food Spoilage and contamination Principles of food safety Food Choice Factors affecting food choice. Food choices



	 caramelisation Fats and oils shortening aeration plasticity emulsification Fruit and Vegetables enzymic browning. oxidation Raising agents chemical (baking powder, bicarbonate of soda, self-raising flours which produce carbon dioxide) mechanical (whisking, beating, folding, sieving, creaming and 	 British and International Cuisines, Sensory Evaluation, Food Labelling and Marketing. Food provenance – Environmental Impact and Sustainability of Food, Food Processing and Production. 	 Using the oven Skill 5: Use of equipment Using equipment Skill 6: Cooking methods Water based methods using the hob. Dry heat and fat-based methods using the hob. Skill 7: Prepare, combine and shape. Prepare, combine and shape. Starch based. Reduction Emulsion Skill 9: Tenderise and marinate. Tenderise and marinate. Skill 10: Dough Making a dough (bread, pastry, pasta) Shaping and finishing 	 Food labelling and marketing influences British and International cuisines Sensory evaluation Food Provenance Environmental impact and sustainability of food. Food Processing and production
	 rubbing in – all incorporate air into the mixture) o steam is produced when the water in any moist mixture reaches boiling point. o biological (yeast). 	Demonstrate knowledge and	Skill 11: Raising agents. Eggs as a raising agent Chemical raising agents Steam as a raising agent Biological raising agent Skill 12: Setting mixtures. Removal of heat Use protein Contexts released November/December for NEA 2	Demonstrate knowledge and understanding of business concepts
Procedural What should they be able to do?	for NEA 1 Section A: Research (6 marks) Students carry out research into the ingredients to be investigated. The research will demonstrate how ingredients work and why. The outcome of	understanding of business concepts and issues. AO1: Demonstrate knowledge and understanding of nutrition, food, cooking and preparation. AO2: Apply knowledge and	 During their NEA task students should be able to: demonstrate effective and safe cooking skills by planning, preparing and cooking using a variety of food commodities, cooking techniques and equipment. develop knowledge and understanding of the functional properties and chemical processes as well as the nutritional 	AO1: Demonstrate knowledge and understanding of business concepts and issues. AO1: Demonstrate knowledge and understanding of nutrition, food, cooking and preparation. AO2: Apply knowledge and understanding of nutrition, food, cooking and preparation.
	the research should clearly inform the nature of the practical investigation and be used to establish a hypothesis or prediction for the food investigation task. Students should:	understanding of nutrition, food, cooking and preparation. AO3: Plan, prepare, cook and present dishes, combining appropriate techniques.	 content of food and drinks. understand the relationship between diet, nutrition and health, including the physiological and psychological effects of poor diet and health. understand the economic, environmental, ethical, and socio-cultural influences on food availability, production processes, and diet and health choices. 	AO3: Plan, prepare, cook and present dishes, combining appropriate techniques.AO4: Analyse and evaluate different aspects of nutrition, food, cooking and preparation including food made by themselves and others.



 analyse the task, explaining 	AO4: Analyse and evaluate	demonstrate knowledge and understanding of functional and	Skills
the background research.	different aspects of nutrition,	nutritional properties, sensory qualities and microbiological	 Exam technique- how to tackle a big question.
carry out secondary	food, cooking and preparation	food safety considerations when preparing, processing, storing,	Time management in an exam.
research, using different	including food made by		• Understand how to critically analyse a chart, table or food
sources, focusing on the		cooking and serving food.	product.
working characteristics,	themselves and others.	understand and explore a range of ingredients and processes	 Understand the context of an exam question.
functional and chemical		from different culinary traditions (traditional British and	 Analysing a task
properties of the	Skills	international), to inspire new ideas or modify existing recipes.	Conducting relevant research into chosen task area, linking to prior
ingredients.	Exam technique- how to		knowledge
 analyse the research and 	tackle a big question.	Skills which should be evidenced throughout Practical examination	
use the findings to plan the	Time management in an	include:	
practical investigation.	exam.Understand how to	Skill 1: General practical skills	
 establish a 	 Onderstand how to critically analyse a chart, 	Skill 2: Knife skills	
hypothesis/predict an	table or food product.	Skill 3: Preparing fruit and vegetables.	
outcome as a result of the	 Understand the context of 	Skill 4: Use of the cooker	
research findings. The	an exam guestion.	Skill 5: Use of equipment	
hypothesis should be a	 Analysing a task 	Skill 6: Cooking methods	
statement which may be	 Conducting relevant 	Skill 7: Prepare, combine and shape.	
proved or disproved.	research into chosen task	Skill 8: Sauce making.	
Section B: Investigation (15	area, linking to prior	Skill 9: Tenderise and marinate.	
marks)	knowledge		
Students carry out practical	-	Skill 10: Dough	
investigations, related to the		Skill 11: Raising agents.	
hypothesis or prediction, which		Skill 12: Setting mixtures.	
demonstrate understanding of			
how ingredients work and why.		Section A: Researching the task (6 marks) Students will research and analyse the: life stage/dietary group or	
Students will record the results		culinary tradition related to the task.	
of the practical investigation.		Students should:	
Students should:		 analyse the task by explaining the research requirements. 	
Investigate and evaluate		 carry out relevant research and analysis related to the: life 	
how ingredients work and		stage, dietary group or culinary tradition.	
why through practical		 identify a range of dishes e.g. by mind-mapping or using 	
experimentation. Each		annotated images.	
investigation should be		 select and justify a range of technical skills to be used in the 	
related to the research and		making of different dishes.	
have a clear aim which can		Ĭ	
then be concluded.		Section B: Demonstrating technical skills (18 marks)	
 The number of investigations will be 		Students will make 3–4 dishes to showcase their technical skills.	
determined by the		Students should:	
complexity of the		• demonstrate technical skills in the preparation and cooking of	
investigations.		three to four dishes. Refer to the Food preparation skills (page	
 A range of appropriate 		9) section of the specification.	
testing methods should be		select and use equipment for different technical skills in the	
		preparation and cooking of selected dishes. Food safety	



identified and carried out to record the results e.g. annotated photographs, labelled diagrams, tables, charts, sensory testing methods, viscosity tests. Section C: Analysis and

evaluation (9 marks) Students will analyse and evaluate the results of the investigation and reflect upon their findings. Explanations will demonstrate how the results can be applied in practical food preparation and cooking. Students should:

- analyse and interpret the results of the investigative work. The results will be linked to the research and data explaining the working characteristics, functional and chemical properties of the ingredient(s)
- evaluate the hypothesis/prediction with justification.
- explain how the results/findings can be applied in practical food preparation and cooking.

principles should be demonstrated when storing, preparing and cooking.

- identify the technical skills within each dish. Photographic evidence will be needed to authenticate the technical skills.
- students will select three dishes to make which allow them to showcase their technical skills to make for their final menu. The final dishes will relate to the task and research and be dishes that have not been made previously.

Section C: Planning for the final menu (8 marks)

As a result of demonstrating technical skills, students will provide explanation for the final three dishes related to e.g., ingredients, processes, technical skills, nutrition, food provenance, cooking methods and portion size. A time plan will be produced for the final three dishes demonstrating dovetailing of different processes. **Students should:**

- justify the appropriateness of the final dishes in terms of e.g., technical skills, nutrition, ingredients, cooking methods, food provenance, sensory properties and portion size.
- produce a detailed time plan for the production of the final three dishes including appropriate techniques. Within the plan, food safety principles will be demonstrated when storing, preparing, cooking and presenting the final dishes.
- demonstrate appropriate use of the three hours to dovetail tasks to prepare, cook and present the final three dishes.
- not repeat any dishes from the 'demonstrating technical skills' stage when making their final menu.

Section D: Making the final dishes (30 marks)

Students will prepare, cook and present a menu of three dishes within a single period of no more than three hours. Students should prepare, cook and present the final dishes, demonstrating:

- selection and use of equipment for different technical skills in the preparation and cooking of the final three dishes.
- knowledge and application of food safety principles (including temperature control) when storing, preparing, cooking and presenting the final three dishes.
- selection, knowledge and use of ingredients when producing different dishes.
- appropriate use of the three hours to demonstrate: technical skills, processes and the use of equipment.
- execution of a range of technical skills with accuracy
 good judgement with regard to cooking times and methods and the sensory properties of



			 each dish organisation and good planning using the time plan and linking tasks within the 3 hours. a range of finishing techniques to produce a high standard of presentation of the final dishes. Section E: Analyse and evaluate (8 marks) Students will carry out sensory evaluation and record the results for all of their practical dishes. For the final dishes, students will carry out and record nutritional analysis, costing and identify improvements to their dishes. Students should: record and analyse the sensory properties (taste, texture, aroma and appearance) of the three final practical dishes. carry out nutritional analysis of the three final dishes. 		
Disciplinary	Tier 3 Disciplinary literacy linked to the unit of study:	Tier 3 Disciplinary literacy linked to the unit of study:	 analyse the cost of the three final dishes. Tier 3 Disciplinary literacy linked to the unit of study: Research 		Tier 3 Disciplinary literacy linked to the unit of study: Recall
Literacy	Research	Recall	Investigation		Identify
(Tier 3 Vocab)	InvestigationAnalysis and evaluation	IdentifyAssess	Analysis and evaluation		Assess Describe
(/		• Describe			• Explain
	When writing their NEA portfolio students should be able to use	• Explain		rminologies as part of their	• Discuss
	and recall their prior learning	DiscussEvaluate	communication through the folder. This will be personalised and specific to students learning and		Evaluate Mark scheme
	terminologies as part of their	 Evaluate Mark scheme 	context chosen. RWCN strategies will be taught to support student progress.		IVIDIA SCHEITHE
	communication through the				
	folder.				
	This will be personalised and specific to students learning and				
	context chosen. RWCN				
	strategies will be taught to				
	support student progress.				
Assessment	Food Preparation and Nutrition Baseline assessment: At the	College Entry Mock examination: Students will have	Spring Mock examination: Students will have a Mock exam	NEA Assessment: The students will complete	Students will prepare for their final summer examination 50% of the final grade for the students.
	start of the autumn term	a Mock exam during the exam	during the exam window for	their NEA 2 assessment. This	the man grade for the students.
	students will complete a	window for Year 11 students.	Year 11 students.	will be assessed throughout	Each assessment paper will consist of multiple-choice questions, 4,
	baseline assessment for GCSE	They will have 1 assessment	They will have 1 assessment	the coursework task and cover	6, 9 and 12 mark responses to case study information.
	Food Preparation and Nutrition	paper, that reflect the Paper	papers, that reflect format for	the 5 marking points/sections:	
	that covers the course content	format for the summer	the summer examination.	Section A: Researching the	
	across all 6 units of the course (including practical skills). This	examination. Feedback will be generated	Feedback will be generated from these two assessments to	task.	
	will help identify areas/topics of	from these two assessments to	enable students to develop	Section B: Demonstration of	
	strength and areas for	enable students to develop	their skills, knowledge and	technical skills	
		their skills, knowledge and			

