



# Years 12 & 13 Curriculum

## Level 3: Food Science & Nutrition (Certificate) (Vocational)



| Year 12      | Term 1 (Autumn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Term 2 (Spring)                                                                                                                                                                                                                                     |                                                                                                                                                                                               | Term 3 (Summer)                                                                                                                                                |                                                                                                                                                                                                                |
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|              | Autumn 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Autumn 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Spring 1                                                                                                                                                                                                                                            | Spring 2                                                                                                                                                                                      | Summer 1                                                                                                                                                       | Summer 2                                                                                                                                                                                                       |
| Topic        | Unit 1: Meeting Nutritional Needs of Specific Groups<br>Theory / Practical                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unit 1: Meeting Nutritional Needs of Specific Groups<br>Theory / Practical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Unit 1: Meeting Nutritional Needs of Specific Groups<br>NEA / Practical                                                                                                                                                                             | Unit 1: Meeting Nutritional Needs of Specific Groups<br>Theory / Practical                                                                                                                    | Unit 1: Meeting Nutritional Needs of Specific Groups                                                                                                           | Unit 2: Ensuring food is safe to eat<br>Unit 3: Experimenting to solve food production issues<br>Theory / Practical                                                                                            |
| Key Concepts | <ul style="list-style-type: none"> <li>Food handling &amp; hygiene</li> <li>Micro-organisms &amp; spoilage</li> <li>Premises &amp; legislation</li> <li>Allergens &amp; food related illness</li> <li>Classification, structure &amp; complimentary action of nutrients</li> <li>Nutrition: carbohydrates, protein, lipids</li> <li>Practical dishes for different target groups</li> <li>Practical skills: Advanced knife skills; Butchery; Fish; Enriched doughs; Set desserts, meringue, laminated dough, emulsions</li> </ul> | <ul style="list-style-type: none"> <li>Nutrition: micronutrients</li> <li>Effect of cooking on nutritional content</li> <li>Analysis of diets</li> <li>Calculating nutritional requirements</li> <li>Life stages</li> <li>Culture &amp; religion</li> <li>Diet related disorders &amp; medical conditions</li> <li>Planning menu production &amp; quality assurance</li> <li>Practical dishes for different target groups &amp; healthier cooking</li> <li>Practical skills: Patisserie, gelatine; sugar work; Couverture; Ice cream &amp; sorbets; Advanced pasta;</li> </ul> | <ul style="list-style-type: none"> <li>Unit 1: NEA – menu planning to meet nutritional needs of &amp; practical task</li> <li>Practical – NEA 3 course menu in 3.5 hours</li> <li>Practical skills: Accompaniments – savoury &amp; sweet</li> </ul> | <ul style="list-style-type: none"> <li>Unit 1: NEA – menu planning to meet nutritional needs of specific groups &amp; practical assessment</li> <li>Practical skills masterclasses</li> </ul> | <ul style="list-style-type: none"> <li>Unit 1: Revision</li> <li>Food safety</li> <li>Nutrition</li> <li>Nutritional needs of humans</li> <li>Diets</li> </ul> | <ul style="list-style-type: none"> <li>Unit 2: Food safety</li> <li>Unit 3: Solving food production issues</li> <li>Practical investigations &amp; food safety related practical e.g. preservation.</li> </ul> |

NEA = Non-Examined Assessment



# Years 12 & 13 Curriculum

## Level 3: Food Science & Nutrition (Diploma) (Vocational)



| Year 13      | Term 1 (Autumn)                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Term 2 (Spring)                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                        | Term 3 (Summer)                                                                                   |          |
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|              | Autumn 1                                                                                                                                                                                                                                                                        | Autumn 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Spring 1                                                                                                                                                                                                                                                                                                                                                   | Spring 2                                                                                                                                                                                                               | Summer 1                                                                                          | Summer 2 |
| Topic        | <b>Unit 2: Ensuring Food is Safe to Eat</b><br><b>Unit 3: Experimenting to Solve Food Production Issues</b>                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                            | <b>Unit 2: Ensuring Food is Safe to Eat</b><br><b>Mock</b><br><b>Unit 3: Experimenting to Solve Food Production Issues</b>                                                                                             | <b>Unit 2: Ensuring Food is Safe to Eat</b>                                                       |          |
| Key Concepts | Unit 2: <ul style="list-style-type: none"><li>Properties of micro-organisms</li><li>Conditions that affect micro-organisms</li><li>How micro-organisms affect food quality</li></ul> Unit 3: <ul style="list-style-type: none"><li>How food properties can be changed</li></ul> | Unit 2: <ul style="list-style-type: none"><li>How micro-organisms affect food quality</li><li>How preservation methods affect micro-organisms</li></ul> Unit 3: <ul style="list-style-type: none"><li>Variables that affect physical food properties</li><li>Success criteria for investigations</li><li>Obtain outcomes from investigations</li><li>Record outcomes of investigations</li><li>Process data</li><li>Review suitability of investigative methods</li><li>Analyse production issues troubleshooting tasks</li><li>Propose practical options to solve production issues</li><li>Scientifically justify proposed options</li></ul> | Unit 2: <ul style="list-style-type: none"><li>Physiology of food intolerances</li><li>Physiological basis of food allergies</li><li>Physiological basis of food poisoning</li><li>Symptoms of food induced ill-health</li></ul> Unit 3: <ul style="list-style-type: none"><li>Practice Unit 3 NEA: Experimenting to solve food production issues</li></ul> | Unit 2: <ul style="list-style-type: none"><li>Practice Unit 2 - ensuring food is safe to eat task</li></ul> Unit 3: <ul style="list-style-type: none"><li>NEA: Experimenting to solve food production issues</li></ul> | Unit 2: <ul style="list-style-type: none"><li>NEA 2 - Ensuring food is safe to eat task</li></ul> |          |

NEA = Non-Examined Assessment



# Years 12 & 13 Assessment

## Level 3: Food Science & Nutrition



All students will sit an assessment and an examination in Year 12 and two mock examinations in Year 13.

|                            | Year 12                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                           | Year 13                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                 | Revision Resources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | Assessment                                                                                                                                   | Exam                                                                                                                                                                                                                                                                                                                                      | Mock Exam                                                                                                                                                                                                                      | Mock Exam                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                            | Autumn Term                                                                                                                                  | Summer Term                                                                                                                                                                                                                                                                                                                               | Autumn Term                                                                                                                                                                                                                    | Spring Term                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Style of Assessment</b> | <b>Written Exam:</b> Two sections: <ul style="list-style-type: none"> <li>A: Short answer</li> <li>B: Extended response questions</li> </ul> | <b>Written Exam:</b> Three sections: <ul style="list-style-type: none"> <li>A: Short answer</li> <li>B: Extended response</li> <li>C: A case study response</li> </ul> <b>Plan, cook, and review:</b><br>Respond to a given scenario by creating three dishes ( <i>spend 3 hours planning, 3.5 hours cooking, and 3 hours reviewing</i> ) | <b>Written Exam:</b> Short response-based questions ( <i>Unit 3</i> )<br><br>A scenario-based response to produce a food safety resource for staff and a food safety risk assessment ( <i>Unit 2</i> )                         | A practical based investigation report in response to a food production-based scenario ( <i>Unit 3</i> )<br><br>An investigation report in response to a food safety scenario ( <i>Unit 2</i> )                                                                 | <b>Kennet Resources</b> <ul style="list-style-type: none"> <li>Core Questions</li> <li>Knowledge Organisers</li> <li><a href="#">Learning Habits</a></li> </ul> <b>External Resources</b> <ul style="list-style-type: none"> <li><a href="http://www.foodafactoflife.org.uk">www.foodafactoflife.org.uk</a></li> <li><a href="http://www.nhs.uk/live-well">www.nhs.uk/live-well</a></li> <li><a href="http://www.food.gov.uk">www.food.gov.uk</a></li> </ul> <p>You can also find additional revision material on Frog</p>  |
| <b>Topics Assessed</b>     | <ul style="list-style-type: none"> <li>The significance of food safety, nutrient properties, and their impact on the human body</li> </ul>   | <ul style="list-style-type: none"> <li>The significance of food safety, nutrient properties, and their impact on the human body</li> </ul>                                                                                                                                                                                                | <ul style="list-style-type: none"> <li>Changing food properties, ingredient workings, and the science behind food</li> <li>Micro-organism properties, growth factors, food quality impact, and preservation methods</li> </ul> | <ul style="list-style-type: none"> <li>Food science principles, investigative techniques, and problem-solving in food production</li> <li>Microbial properties, environmental influences on growth, impact on food quality, and preservation methods</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |