

Year 9 Food Technology Unit Plan “Calci Cool”

Lesson Sequence	Resources	Learning Intentions
<p><u>Introduction and expectations</u> Give out course work books. Look at the Technology cycle for the term (refer to teacher guidelines). Ask students to identify what is different about it from last term. Inform students of the focus for the term. Term one – technology cycle Term two – brief development Term three – planning Term four – evaluation</p> <p><u>Food technology in industry</u> Watch the video, “Developing New Food Products” – Muesli Bars. Discuss as a class. Emphasise the fact we don’t use the words “yuck” and “yum” when evaluating products – just like the video. Students fill in work book. Go over questions together.</p> <p><u>What is food technology?</u> Brainstorm as a class the things the students know or might do in food technology. Students copy notes, “What is food technology?” and label food product development, food as a material and recipe development. Discuss as a class.</p> <p><u>Codes of practice</u> <u>Foods room orientation and rules</u> Students are orientated around practical foods room. Talk about the laundry, pantry, and equipment rooms. Show the students the areas for each kitchen. In teams complete a kitchen find. The first team to finish and have their kitchen items checked correctly win a lolly. Emphasise colour coding for boards, newspaper for scraps, cutlery being in the baskets at the front, tiles beside hobs for hot things, pyrex jugs for microwave safe containers, yellow clothes for wiping benches, tea</p>	<p>Photocopied course work book</p> <p>Teacher guidelines</p> <p>Video – ‘Developing new food products’</p> <p>Notes on, “What is food technology?”</p> <p>Lollie’s</p>	<p>To introduce students to expectations of course</p> <p>Students see food technology in an industrial environment</p> <p>To introduce students to terms and their meanings in food technology. To get students to think about technology in a food context</p> <p>Students are aware of the expectations of the practical food rooms and are aware of hygiene and safety routines.</p>

<p>towels etc. Go over the protocol for washing dishes in student work books - “cook’s cleaning code”.</p> <p>Hygiene and safety Brainstorm as a class hygiene and safety rules in the foods room. Students complete cut and paste on hygiene in the kitchen. Students complete cloze activity – Do you know your safety rules? Complete for homework.</p> <p><u>Introduce structure for practicals</u> Organisation of ingredients – use of diaries Going over issue and opportunity Reading recipes – ingredients, method, measurements in recipes. Go over examples on the board (t, T, c, ml, g etc) Using attributes Evaluation “my product was successful because...” Organise ingredients for practical – fruit smoothie. Students to choose fruit to use in smoothie. Go through the recipe and issue.</p> <p><u>Knowledge and skill development</u></p> <p><u>Food product analysis activity</u> Food product analysis checklist using packets of toffee pops. Go through the questions together. Emphasis on packaging, hygiene and safety and sensory attributes of product.</p> <p><u>Fruit smoothie practical– using a blender and food processor</u> Fruit smoothie practical. Show students how to use blender and food processor. Make sure all the attachments click into place. Students make smoothies and evaluate using attributes, not “yuck” and “yum”. Students clean up. Check kitchens. Go around the class and get students to read out their evaluations. Comment on descriptors used</p>	<p>Scissors, glue, A4 paper</p> <p>Toffee pops for class Old toffee pop packages</p> <p>Ingredients for smoothie</p>	<p>Students learn the importance of evaluating what they do using attributes to describe their products</p> <p>Students learn how to use the food processor and blender</p>
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<p>cone.</p> <p><u>Adapted muffin practical</u> Students work in pairs. Homework – get an adult to evaluate muffin.</p> <p><u>Sensory analysis</u> Read through sheet on tasting and testing. Ask students to identify the five senses and then <u>the four tastes</u>. On the sheet “designing and making food products in school, label the areas of the tongue sensitive to the four tastes. Set up a coffee, sugar, vinegar and salt solutions to demonstrate the four tastes. Get students to identify the taste. Jellybean tasting – discuss the aim of this test which is to demonstrate that <u>colour is a determining factor when identifying flavour</u>. Students are blindfolded and given jellybeans to taste. Students fill in worksheet. At the end of the lesson, inform the students what the flavours were on the packet. Get a show of hands to see how many students got all 6 samples correct. Reinforce the aim of the test.</p> <p><u>Balanced and healthy food choices</u> Organise ingredients for Shawama practical. Go over the issue and inform students they will be learning about the four food groups and healthy eating.</p> <p><u>Healthy food pyramid</u> Recap the healthy food pyramid. Eat most, eat moderately, and eat least. Get students to identify different foods that fill within the areas of the pyramid.</p> <p><u>The four food groups</u> Talk about the ‘eat moderately’ and ‘eat most’ areas and introduce the four food groups. Write down the group name and get each student to identify a food that belongs to each group. Show the students how the</p>	<p>Ingredients for adapted muffin recipe</p> <p>Samples of coffee, sugar, salt and vinegar solutions Cotton buds Glasses Jellybeans Blindfolds</p> <p>Patricia Bawden Textbook – Food, Health and Wellbeing</p>	<p>ideas</p> <p>Students learn about the four tastes and can identify them. Students are aware of the standardised conditions and formal procedures of sensory testing</p> <p>Students understand that colour is a determining factor when identifying flavour</p> <p>Students can identify the four food groups and how they relate to the healthy food pyramid and healthy food choices</p>
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<p>Homework: Students make a poster about calcium and osteoporosis.</p> <p>Say cheese! Students taste a range of cheeses (blue, edam, feta, parmesan, camembert etc) and evaluate the appearance, taste, texture and aroma of each product. Students explore fat and calcium contents. Discuss uses etc.</p> <p><u>Formative assessment</u> Collect in work books and give student feedback on progress this far.</p> <p><u>Introduce assessment task and issue (check year 9 teacher guide for specific teaching for each term's focus)</u> Introduce the assessment for the term. Go over the context, issue, class brief (to develop a balanced, high calcium meal using the roux sauce method) and student instructions. Relate back to the technology cycle. Students write an initial brief (what you are doing, who the product is for and the purpose of making it) and product specifications. Give examples on the board of a good brief and specifications. Discuss the important attributes in a meal (taste, texture, colour, presentation, healthy, portion size etc). Students justify why they are important attributes in a meal.</p> <p><u>Stakeholder profiling</u> Organise groups to work together for the rest of the term. In pairs students develop meals for another pair. Students interview each other to get information for their profiles and to establish a purpose for their food product.</p> <p><u>The roux sauce method</u> Teacher to demonstrate making a basic roux sauce using a double boiler. Teacher shows pre-made samples showing different thicknesses</p>	<p>A4 paper</p> <p>Cheese samples, plates, toothpicks, nutritional info</p> <p>Teacher guidelines</p> <p>Roux sauce ingredients, flavouring ingredients,</p>	<p>Students are exposed to a range of cheeses and can identify common uses</p> <p>Students will be introduced to key terms and understand their link to the technology cycle. Students will understand what a brief is and the important attributes to evaluate a meal</p> <p>Students will understand the importance of working with stakeholders</p> <p>Students will be introduced to a ranking</p>
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<p>of roux sauce. Discuss the different uses. Students record the uses in their workbook. Each group of students makes the basic roux sauce and adds different flavourings as outlined in work book. Students set up their sample on their kitchen bench with spoons. Discuss how we carry out tasting in a hygienic way. Students go around each kitchen and taste the different samples. Students rank the samples in order of preference in their workbooks. Discuss results. Which sample is preferred? How will this lesson help you in the development of your product?</p> <p><u>Skill Development</u> Students are learning how to cook pasta and make a range of cases which are roux sauce could be potentially used with.</p> <p>Pasta and cheese sauce practical – roux sauce making, pasta cooking Students work in pairs. Reinforce use of double boilers, pasta being ‘al dente’ etc. Homework: own evaluation of pasta and cheese sauce.</p> <p>Chicken, cream cheese and apricot sauce filo pastries – working with filo, cooking chicken Students work in pairs. Reinforce filo use. Drying out, folding etc. Checking whether chicken is cooked. Homework: own evaluation of filo pastry.</p> <p>Mini cheese and vegetable tart practical - baking Students work in pairs. Homework: own evaluation of mini vegetable tart.</p> <p>Crepes with fruit and ice-cream – crepe making</p>	<p>double boilers, tasting spoons</p> <p>Pasta and cheese sauce ingredients</p> <p>Chicken filo ingredients</p> <p>Mini vegetable tart ingredients</p> <p>Crepe ingredients</p>	<p>test and know how to make a roux sauce</p> <p>Skills – roux sauce making, pasta cooking (al dente)</p> <p>Skills – filo pastry</p> <p>Skills – egg cookery</p> <p>Skills – crepe making</p>
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<p>Students work in pairs. Reinforce tilting of pan to make thin crepes, origins of crepe. Homework: own evaluation of crepes.</p> <p><u>Existing Ideas</u> Homework: Using a range of resources (such as recipe books, magazines, internet, supermarket and people etc), students research ways in which a basic roux sauce is used. Students to indicate the resources that they have used.</p> <p><u>Concepts</u> Students brainstorm a range of meal ideas using the roux sauce method. This will be a general description of the meal. It may include picture with annotations. Students need to come up with at least three ideas.</p> <p><u>Concept screening</u> Refer students back to original specification generated. Students transfer specifications to their concept screening chart in work book. Students screen each concept against their specifications to work out the two ideas that they will develop further</p> <p><u>Testing/trialling</u> Students write recipes for their two ideas, organise ingredients, make and evaluate concepts.</p> <p><u>Design development</u> Students develop one idea further as a result of evaluations. Students brainstorm changes to recipe to further meet the brief and specifications. Students write notes in brackets beside changes to say how they meet the stakeholder requirements. Model this to them. Recap high calcium foods and the four food groups. Students rewrite</p>	<p>Students organise ingredients for practical</p> <p>Students organise</p>	<p>Students understand that ideas come from a range of resources</p> <p>Students undertake technological practice</p>
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<p>Assessment of technological practice Students hand in assessment task and folders for assessment.</p> <ul style="list-style-type: none">-Technology cycle (term one)-Brief development (term two)-Planning (term three)-Evaluation (term four) <p>Assessment of food preparation practice Teacher to make a judgement on student capability and safe and hygienic practice (see assessment criteria).</p>		<p>Students can communicate the next steps in their learning</p>
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