PICTON HIGH SCHOOL

Creating Opportunities Achieving Success



YEAR 12 FOOD TECHNOLOGY

FOOD PRODUCT DEVELOPMENT

Due Date: Friday 26st July 2018 Period 1 (Term 3 Week 1) –	Assessment Name: Food Product Development Design
Theory	Project
Tuesday 31 st July 2018 Period 2 (Term 3 Week 2) - Practical	
Mark: /50	Weighting: 30 %

SYLLABUS OUTCOMES TO BE ASSESSED: H4.1 Develops, prepares and presents food using product development processes H5.1 Develops, realises and evaluates solutions to a range of food situations

DIRECTIVES TO BE ASSESSED:

Develop - to come gradually into existence or operation

Prepare – make (something) ready for use or consideration

Present - show or offer (something) for others to scrutinize or consider

Evaluate – make a judgement based on criteria; determine the value of

TASK DESCRIPTION:

You are on the Research and Development (R&D) Team of a company (your choice) within the Food Manufacturing Industry and have the task of developing a new food product (either new-to-the-world or a line extension) that will extend market share and that can be sold nationally.

Using the steps in the Food Product Development Process below, develop, realise and evaluate a solution to the design brief above and then develop, prepare and present chosen solution.

- 1. SWOT Analysis (8 marks)
- 2. Idea Generation and Screening (4 marks)
- 3. Market Research (10 marks)
- 4. Product Specifications (4 marks)
- 5. Feasibility Study (5 marks)
- 6. Production Process Development (5 marks)
- 7. **Develop** and **prepare** prototype (2 marks)
- 8. **Testing** and **evaluation** of prototype (2 marks)
- 9. **Prepare** and **Present** meal to panel (10 marks)

ASSESSMENT CRITERIA – STUDENT CHECKLIST:

You will be assessed on your ability to: Have you chosen a company within the Food Manufacturing Industry? ☐ Have you completed a detailed SWOT (Strengths, Weaknesses, Opportunities and Threats) analysis for your company? ☐ Idea Generation and Screening — have you come up with a minimum of 2 ideas? ☐ Idea Generation and Screening — have you identified advantages and disadvantages of each idea? Idea Generation and Screening – Have you chosen the best possible solution to the design brief? ☐ Market Research – Have you identified your target market and distributed a market research survey to at least 5 people in this target?

☐ Market Research — Have you evaluated your product in terms of the responses and listed any modifications that may be made to your product?

Product Specifications – have you produced a product specification table for your product?

	Feasibility study – have you completed both a financial and technical feasibility for your product?
	Production Process Development – have you completed a Flow Process Chart indicating all steps required
	in production of your product?
	Production Process Development – is your Flow Process Chart in the correct format, using the correct
	symbols and does it clearly identify all quality control points?
	Develop and prepare prototype – have you made your product at home and included photographs?
	Testing and evaluation of prototype – have you completed a sensory evaluation of your product, describing
	appearance, odour and taste?
	Testing and evaluation of prototype – have you listed any modifications that may be made to your final
	product from this evaluation?
	Prepare and Present meal to panel – have you included your final recipe in your folio?
	Prepare and present meal to panel – have you got all your ingredients ready for your practical (Period 1)
	Prepare and present meal to panel – have you got answers prepared for any questions the panel may ask?

SWOT Analysis Guideline Develops, realises and evaluates solutions to a range of food situations by conducting an outstanding SWOT Analysis for their chosen company Explicit use of subject specific terminology Develops, realises and evaluates solutions to a range of food situations by conducting a sound SWOT Analysis for their chosen company Continued use of subject specific terminology Besic subject specific terminology used Develops, realises and evaluates solutions to a range of food situations by conducting a basic SWOT Analysis for their chosen company Basic subject specific terminology used Develops, realises and evaluates solutions to a range of food situations by conducting a limited SWOT Analysis for their chosen company Section not attempted Develops, realises and evaluates solutions to a range of food situations by producing 2 outstanding detailed ideas for new food products, identifying advantages and disadvantages of each and then selecting the best possible solution to the design brief Explicit use of subject specific terminology Develops, realises and evaluates solutions to a range of food situations by producing 2 detailed ideas for new food products, identifying advantages and disadvantages of each and then selecting a solution Continued use of subject specific terminology Continued use of subject specific terminology	rade
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outstanding detailed ideas for new food products, identifying advantages and disadvantages of each and then selecting the best possible solution to the design brief - Explicit use of subject specific terminology - Develops, realises and evaluates solutions to a range of food situations by producing 2 detailed ideas for new food products, identifying some advantages and disadvantages of each and then selecting a solution	
 Develops, realises and evaluates solutions to a range of food situations by producing 2 detailed ideas for new food products, identifying some advantages and disadvantages of each and then selecting a solution 	
 Develops, realises and evaluates solutions to a range of food situations by producing 1 detailed idea OR 2 basic ideas for new food products, identifying some advantages and/or disadvantages of each and then selecting a solution Some use of subject specific terminology 	
 Develops, realises and evaluates solutions to a range of food situations by producing 1 idea for a new food products then selecting a solution 	
- Section not attempted 0	

Market Research Guideline	
 Outstandingly develops, realises and evaluates solutions to a range of identifying a suitable target market for the new food product, product market survey related to their product and distributing to at least 5 product and market survey related to the new food product that came from these researched. Explicit use of subject specific terminology 	cing an outstanding people and then listing
 Explicit use of subject specific terminology Highly develops, realises and evaluates solutions to a range of food starget market for the new food product, producing a market survey and distributing to some people and then listing any modifications to that came from these results 	related to their product
 Soundly develops, realises and evaluates solutions to a range of food a target market for the new food product, producing a market surve and/or listing any modifications to the new food product that came for 	y related to their product
 Basically develops, realises and evaluates solutions to a range of food a target market for the new food product and/or producing a market 	d situations by identifying 1-2
- Section not attempted	0
Product Specifications Guideline	
 Develops, realises and evaluates solutions to a range of food situatio outstanding product specifications table for the new food product Explicit use of subject specific terminology 	ons by producing an 4
 Develops, realises and evaluates solutions to a range of food situation detailed product specifications table for the new food product Continued use of subject specific terminology 	ons by producing a highly 3
 Develops, realises and evaluates solutions to a range of food situation product specifications table for the new food product Basic use of subject specific terminology 	ons by producing a basic 2
 Develops, realises and evaluates solutions to a range of food situation product specifications table for the new food product 	ons by producing a limited 1
- Section not attempted	0
Feasibility Study Guideline	
 Develops, realises and evaluates solutions to a range of food situation outstandingly detailed financial and technical feasibility study for the product Explicit use of subject specific terminology 	
 Develops, realises and evaluates solutions to a range of food situation detailed financial and technical feasibility study for their company ar Continued use of subject specific terminology 	· · · · · · · · · · · · · · · · · · ·
 Develops, realises and evaluates solutions to a range of food situation detailed financial and technical feasibility study for their company ar Some use of subject specific terminology 	J
 Develops, realises and evaluates solutions to a range of food situation detailed financial OR technical feasibility study for their company approducing a basic financial and technical feasibility for the company Basic use of subject specific terminology 	d new food product OR by
 Develops, realises and evaluates solutions to a range of food situation financial or technical feasibility study for their company and new food 	
- Section not completed	0

Production Process Development	
 Develops, realises and evaluates solutions to a range of food situations by producing an outstanding flow process chart for their new food product, identifying all Critical Control Points and using correct format for the chart 	5
- Explicit use of subject specific terminology	
 Develops, realises and evaluates solutions to a range of food situations by producing a highly detailed flow process chart for their new food product, identifying Critical Control Points and using correct format for the chart Continued use of subject specific terminology 	4
 Develops, realises and evaluates solutions to a range of food situations by producing a sound process chart for their new food product and identifies some Critical Control Points Some use of subject specific terminology 	3
 Develops, realises and evaluates solutions to a range of food situations by producing a basic process chart for their new food product Basic use of subject specific terminology 	2
 Develops, realises and evaluates solutions to a range of food situations by producing a limited process chart for their new food product 	1
- Section not attempted	0
Develop and Prepare Prototype Guideline	
 Develops, prepares and presents food using product development processes by producing a prototype of the product at home and including at least 3 pictures of the experiment 	2
 Develops, prepares and presents food using product development processes by producing a prototype of the product at home and including 1-2 pictures of the experiment 	1
- Section not attempted	0
Testing and Evaluation of Prototype Guideline	
 Develops, realises and evaluates solutions to a range of food situations by completing an outstanding sensory evaluation (appearance, colour and odour) and then making appropriate modifications from this 	2
 Explicit use of subject specific terminology Develops, realises and evaluates solutions to a range of food situations by completing a sensory evaluation (appearance, colour and odour) and then making modifications from this 	1
- Some use of subject specific terminology	
- Section not attempted	0
Prepare and Present Meal to Panel Guideline	
 Develops, prepares and presents food using product development processes by producing their new food product in the time period allocated, using outstanding preparing and presentation skills and effectively answering any questions posed by the panel 	8-10
 Develops, prepares and presents food using product development processes by producing their new food product in the time period allocated, using high preparing 	5-7
 and presentation skills and answering any questions posed by the panel Develops, prepares and presents food using product development processes by producing their new food product in the time period allocated, using sound preparing and presentation skills and answering most questions posed by the panel 	2-4
Develops, prepares and presents food using product development processes by producing their new food product, using basic preparing and presentation skills and answering some questions posed by the panel	1
- Section not attempted	0