



Subject:	Food Technology
Year:	12
Task:	2
Due Date:	Term 1, Week 9, 27/3/20
Mark:	/60
Weighting:	25%
Assessment Mode:	Practical and Assignment with electronic submission through Google Classroom

Outcomes

H1.1 explains manufacturing processes and technologies used in the production of food products

H4.2 applies principles of food preservation to extend the life of food and maintain safety.

Marking Criteria:

Students will be assessed on their ability to:

- Skills in experimenting with and preparing food by applying theoretical concepts.
- Skills in designing, implementing and evaluating solutions to food situation

Submission / Late Policy

Students are expected to submit their assessment tasks during the period the class meets on the due date. Students submitting assessment tasks at the staff room should only submit these tasks to their teacher or a nominated representative from the faculty. If the task is collected by anyone else the student MUST ask for a signed submission receipt.

Year 11-12 students will receive a zero for failing to submit their assessment task by the due date unless they have a doctor's certificate stating the nature of their absence. This is in line with NESA's ACE manual.

If you are absent on the due date you must submit the assessment task with a doctor's certificate on the first day that you return to school, whether you have the class or not. Failure to supply a doctor's certificate may result in a zero being awarded for the task

HSC

Food Manufacture - Term One 2020 Assessment 2: Case Study on Manufacturing Food.

Prepare two reports (PART A and PART B) which answer the following questions: COMPUTER GENERATED and submitted through Google Classroom , plus PART C: Practical application.

PART A:

Cupcake/muffin Manufacturing in a domestic setting: At school (to be completed at home if absent on our practical day)

MARKS AWARDED

Find a cupcake recipe that suits your taste.		
a) Identify the raw material specifications for each ingre		/4
b) Describe the tests or assessments (sampling) you could	Id apply to the ingredients to	ensure
compliance to the product specifications you have set.		/4
c) Design a flow process chart for your cupcake/muffin.		
Make the cupcake according to the specifications you have	e set. Include a photograph o	f your
batch in your report.		
d) Discuss, were all the cupcakes/muffins uniform in size	e, appearance, weight and	
palatability?		/3
Account for any differences in characteristics.		
e) Consider food additives which may be used if this pro		
level. For each food additive discussed, explain its function. I	List the additive/s by its numb	
name.		/6
f) Describe the principles of food preservation that were	e applied to the processing o	
cupcake/muffins?		/4
	TOTAL:	24
PART B;		
Food Preservation: Jam making: At school		
MARKS AWARDED		
a) Identify the main causes of spoilage of the perishable ingr	redients before preservation	/4
b) Explain TWO preservation principles involved when preserv		/4
c) Discuss TWO preservation processes which may be used in	•	/6
d) Describe an experiment to determine the suitability of the		/0
e) Determine the most suitable type of packaging for this pro-		/3
f) Compare and contrast your jam in comparison to other co		/3
What are the similarities and differences?		, -
	TOTAL: /	26
PART C:		
Jam manufacture: Practical application		
MARKS AWARDED		
Application of cake and jam making procedures and princip	oles of food preservation	
Demonstration of safe, hygienic work practices	•	/10
PADT A. /24		

PART A:	/24
PART B:	/26
PART C:	/10

TOTAL:	/60
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Marking Guideline PART A: Cupcake manufacturing in a domestic setting

Question a: Identify the raw material specifications for each ingredient. Outstandina For every inaredient student has: 4 marks identified standards for physical characteristics (size, shape) • identified standards for sensory characteristics (colour, aroma) identified standards for chemical characteristics (moisture content) Student has correctly identified in depth what each ingredient should look like and has also discussed checks for microbial growth in each section. High For every inaredient student has: identified standards for physical characteristics (size, shape) 3 marks identified standards for sensory characteristics (colour, aroma) identified standards for chemical characteristics (moisture content) Student has identified what each ingredient should look like and has also discussed checks for microbial growth in each section. Sound For every ingredient student has: 2 marks identified standards for physical characteristics (size, shape) identified standards for sensory characteristics (colour, aroma) identified standards for chemical characteristics (moisture content) Student has identified what each inaredient should look like. Basic For some ingredients student has: identified standards for two or more characteristics. 1 marks Student has identified what each ingredient should look like. Limited Limited description of raw material specifications. 0.5- 0 marks Question b: Describe the tests or assessments (sampling) you could apply to the ingredients to ensure compliance to the product specifications you have set. Outstanding Student has expertly described sampling methods for each ingredient which 4 marks mirrors quality control procedures used in industry. Student has discussed physical, sensory and chemical or microbial tests in detail. High Student has described sampling methods well for each ingredient which 3 marks mirrors quality control procedures used in industry. Student has discussed physical, sensory and chemical or microbial tests. Student has described sampling methods for some ingredients which mirrors Sound 2 marks guality control procedures used in industry. Student has discussed two or more characteristic tests. Basic Student has described sampling methods for some ingredients. Student has 1 marks discussed at least two characteristic tests at a basic level. Limited Limited description of tests and assessment samples. .5 mark Question C: Design a flow process chart for your cupcake. Identify the critical control points. Outstanding Student has expertly created a flow process chart for their cupcake, using 4 marks correct symbols and has identified all critical control points that could result in

a risk to health and safety or financial loss.High
3 marksStudent has accurately created a flow process chart for their cupcake, using
correct symbols and has identified all critical control points that could result in
a risk to health and safety or financial loss.Sound
2 marksStudent has created a flow process chart for their cupcake, using correct
symbols and has identified some critical control points that could result in a
risk to health.

Basic	Student has created a flow process chart for their cupcake, using some
1 mark	correct symbols and has identified 1 or more critical control points that could
	result in a risk.
Limited	Student has created a flow process chart for their cupcake, using some
0.5- 0 marks	correct symbols.
	scuss, were all the cupcakes uniform in size, appearance, weight and
• •	unt for any differences in characteristics.
Outstanding	Student has evaluated their cupcakes and accounted for size differences,
3 marks	appearance, weight and palatability with correct reasoning and expert evaluation skills.
High 2 marks	Student has discussed size differences, appearance, weight and palatability with good reasoning.
Sound	Student has discussed their cupcakes and accounted for two or more
1.5 marks	characteristics with some correct reasoning.
Basic	Student has discussed their cupcakes and accounted for two or more
1 mark	characteristics with some incorrect reasoning.
Limited	Student has discussed their cupcakes with some incorrect reasoning.
0.5- 0 marks	staden nas ascossed men copeakes with some inconect reasoning.
	onsider food additives which may be used if this product was manufactured at
-	ach food additive discussed, explain its function. List the additive/s by its
number and full na	
Outstanding	Student has noted many possible food additives.
6 marks	Student has expertly explained all mention food additives functions in food.
	Student has correctly listed additives by full names and numbers.
High	Student has noted adequate possible food additives.
5-4 marks	Student has recognised and explained all mention food additives functions in
	food.
	Student has correctly listed additives by full names and numbers.
Sound	Student has noted some possible food additives.
3 marks	Student has recognised some mentioned food additives functions in food.
	Student has listed additives by full names and numbers.
Basic	Student has noted some possible food additives.
2-1 marks	Student has listed additives by full names and numbers.
Limited	Student has listed
0.5- 0 marks	additives at a limited
	standard.
Question f: De:	scribe the principles of food preservation that were applied to the processing
of your cupcakes?	
Outstanding	Student has expertly described the preservation principles which were
4 marks	applied to the manufacture of the cupcake. They have discussed numerous
	methods to ensure safety.
High	Student has described the preservation principles which were applied to
3 marks	the manufacture of the cupcake well. They have discussed adequate
	methods to ensure safety.
Sound	Student has described the preservation principles which were applied to
2 marks	the manufacture of the cupcake. They have discussed some methods to
	ensure safety.
Basic	Student has described one or more preservation principles which were
1 mark	applied to the manufacture of the cupcake.
Limited	Student has described one preservation principles incorrectly or at an
0.5-0 marks	inadequate level.

Marking Guideline PART B: Food Preservation: Jam making

Question a: Identify the main causes of spoilage of the perishable ingredients before preservation.	
Outstanding 4 marks	Student has expertly identified the 5 main causes of spoilage of all perishable ingredients in jam.
High 3 marks	Student has adequately identified the 5 main causes of spoilage of all perishable ingredients in jam.
Sound 2 marks	Student has identified the 3-4 main causes of spoilage of some perishable ingredients in jam.
Basic 1 mark	Student has identified 1-2 main causes of spoilage of some perishable ingredients in jam.
Limited0.5-0	Student has identified 1-0 main causes of spoilage of some perishable ingredients in jam or has incorrectly answered.
Question b: E	xplain TWO preservation principles involved when preserving this food.
Outstanding 6 marks	Student has explained TWO preservation principles involved when preserving their jam. They have chosen preservation principles which are correct for this food and have discussed these in detail.
High 5 -4 marks	Student has explained TWO preservation principles involved when preserving their jam. They have chosen preservation principles which are correct for this food and have discussed these well.
Sound 3 marks	Student has explained TWO preservation principles involved when preserving their jam. They have chosen preservation principles which are correct for this food and have discussed these adequately.
Basic 2 mark	Student has explained ONE preservation principle involved when preserving their jam.
Limited 1-0 marks	Student has incorrectly explained ONE preservation principle involved when preserving their jam.
Question c: Diam.	Discuss TWO preservation processes which may be used in commercial
Outstanding 6 marks	Discuss TWO preservation processes which may be used in commercial jam. Student has discussed TWO preservation processes involved when preserving commercial jam. They have chosen preservation processes which are correct for this food and have discussed these in detail.
High 5 -4 marks	Student has explained TWO preservation processes involved when preserving commercial jam. They have chosen preservation processes which are correct for this food and have discussed these well.
Sound 3 marks	Student has explained TWO preservation processes involved when preserving commercial jam. They have chosen preservation processes which are correct for this food and have discussed these adequately.
Basic 2 mark	Student has explained ONE preservation process involved when preserving commercial jam.
Limited 1-0 marks	Student has incorrectly explained ONE preservation process involved when preserving commercial jam.
Question d: D for this product.	Describe an experiment to determine the suitability of the packaging
Outstanding 4 marks	Student has expertly described an experiment which would test the suitability of the package. They have discussed how the experiment would prove the package suitable or unsuitable. This experiment mirrors experiments appropriate for industry.

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High	Student has described an experiment well, which would test the suitability
3 marks	of the package. They have discussed how the experiment would prove the
	package suitable or unsuitable.
Sound	Student has described an experiment adequately, which would test the
2 marks	suitability of the package. They have discussed how the experiment would
	prove the package suitable or unsuitable.
Basic	Student has described an experiment, which would test the suitability of
1 mark	the package at a basic level.
Limited	Student has incorrectly described an experiment.
0.5- 0 marks	
Question e: D	etermine the most suitable type of packaging for this product and
state why.	
Outstanding	Student has correctly determined the most suitable type of packaging for
3 marks	the jam and stated why in detail.
High	Student has correctly determined the most suitable type of packaging for
2 marks	the jam and stated why adequately.
Sound	Student has correctly determined the most suitable type of packaging for
1.5 marks	the jam and stated why at a sound level.
Basic	Student has determined a type of packaging for the jam and stated why
1 mark	inadequately.
Limited	Student has not determined a type of packaging for the jam.
0.5- 0 marks	
Question f: Compare and contrast your jam in comparison to other commercial jam products. What are the similarities and differences?	
Outstanding	Students have expertly compared their jam to commercial jam products
3 marks	acknowledging the similarities and differences. They have used clear
	examples to illustrate their point.
High	Students have compared their jam to commercial jam products
2 marks	acknowledging the similarities and differences. They have used clear
	examples to illustrate their point.
Sound	Students have compared their jam to commercial jam products
1.5 marks	acknowledging the similarities and differences.
Basic	Students have compared their jam to commercial jam products
1 mark	acknowledging the similarities and differences inadequately.
Limited	Students have compared their jam to commercial jam products
0.5- 0 marks	acknowledging some similarities and differences at a limited level.