



Singapore–Cambridge General Certificate of Education Normal (Technical) Level (2022)

Food Studies (Syllabus 6079)

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INTRODUCTION

The Food Studies syllabus is designed to provide Normal (Technical) students with knowledge of food commodities and the basic concepts of nutrition and meal planning, and understanding of their impact on health. It will equip students with the essential knowledge and skills to plan and prepare healthy meals using a variety of food commodities and methods of cooking.

The emphasis of the syllabus is on the practical application of knowledge and skills of the subject. A coursework element is included in the syllabus and students are expected to become increasingly competent in a wide range of practical and investigation skills. The sound theoretical knowledge and culinary skills acquired will help students to meet their present and future individual health needs as well as those of their family and the community.

The syllabus will also provide a foundation for students to pursue further learning in courses related to the food industry. It will incorporate authentic learning experiences with the provision of exposure to the food industry to build relevant work habits and skills.

AIMS

- 1. To develop students' understanding of food commodities
- To equip students with the knowledge and skills to plan and prepare healthy meals using a variety of food commodities and methods of cooking
- To develop students' understanding of the basic concepts of nutrition and meal planning, and their impact on health

ASSESSMENT OBJECTIVES

The assessment objectives for this subject are classified into two main areas:

(i) Subject Content Knowledge

Candidates should be able to demonstrate knowledge and understanding of:

- 1. the properties of food commodities and how they can be used
- 2. the principles of various methods of preparation and cooking
- 3. basic concepts of nutrition and meal planning

(ii) Process Skills

Candidates should be able to plan and carry out coursework in which they can:

- 1. investigate and develop ideas by:
 - defining a task question/problem situation
 - gathering and processing information
 - exploring and deriving learning from food preparation
- 2. make informed decisions with appropriate justifications
- 3. demonstrate good organisational and time management skills
- 4. apply different food preparation and cooking techniques in preparing dishes/meals
- 5. demonstrate proficient use of equipment and good management of resources in food preparation
- 6. evaluate the outcome of the task
- 7. communicate ideas effectively

SCHEME OF ASSESSMENT

Assessment Objectives	Paper 1 Written Paper	Paper 2 Coursework	Overall
Subject Content Knowledge	25%	10%	35%
Process Skills	15%	50%	65%
Overall by component	40%	60%	100%

There will be TWO papers:

Paper 1 40% (80 marks) Paper 2 60% (60 marks)

Paper 1 (1 hour 30 minutes) – Written Paper

This will test the candidates' knowledge of theory and practice in response to the assessment objectives. Candidates are to answer all questions.

Section A: 20 marks (short-answer type questions)
Section B: 28 marks (data response type questions)
Section C: 32 marks (structured type questions)

Sub-total: 80 marks

Paper 2 - Coursework

Candidates will be given an assignment at the beginning of the examination year. It should be completed for assessment by July of that year. The assignment will have a practical focus where the candidates are required to apply their knowledge and understanding in relation to the subject content. It will provide candidates with the opportunity to display their abilities to create interesting product(s). A total of 35 hours should be assigned during curriculum time to complete the assignment.

Assessment will focus on the background study of the factors of the given assignment; the ability to select and apply relevant content knowledge to explore ideas in food preparation to inform the final choice of cooked product and recipes related to the assignment; the planning and execution of the task; and the ability to review the product.

Background Study (B)		(6 marks)
Exploration (E)		(6 marks)
Decision Making (DM)		(6 marks)
Planning (P)		(6 marks)
Execution (Exe)	 organisation and management 	(12 marks)
	method	(12 marks)
	 product and presentation 	(6 marks)
Evaluation (Eva)	p	(6 marks)
		(60 marks)

Presentation of Coursework Report

The coursework report must be word processed and submitted electronically. The recommended typeface is Arial, minimum font size 11, or Times New Roman, minimum font size 12. Digital photographic evidence of the exploration component and the final dishes in the execution component must be included in the report. All pages should be clearly numbered. The report must not exceed **16** pages.

ASSESSMENT CRITERIA FOR PAPER 2: COURSEWORK

Process/Tasks		Indicators The candidate:						
		No Marks		LOW		MEDIUM		HIGH
Background Study (B)	•	No evidence of Background Study	•	Identifies and considers few factors Shows little understanding of the task requirements Gathers information but requires help in selecting and presenting relevant information 1–2 marks	•	Identifies and considers some factors Shows some understanding of the task requirements Gathers, selects and presents some relevant information from a range of sources 3–4 marks	•	Identifies and considers most factors Shows a clear understanding of the task requirements Gathers, selects and presents relevant information from a range of sources 5–6 marks
Exploration (E)	•	No evidence of Exploration 0 marks	•	Provides few observation and learning acquired from the outcome of exploration Provides brief explanation on the result of the exploration to inform final choice of cooked product 1–2 marks	•	Provides some observation and learning acquired from the outcome of exploration Provides some explanation on the result of the exploration to inform final choice of cooked product 3–4 marks	•	Provides an adequate observation and learning acquired from the outcome of exploration Provides adequate explanation on the result of the exploration to inform the final choice of cooked product 5–6 marks
Decision Making (DM)	•	No evidence of Decision Making 0 marks	•	Makes decisions that are not appropriate to the task Justifies decisions with little reference to the information gathered 1–2 marks	•	Makes decisions that are somewhat appropriate to the task Justifies decisions adequately using some relevant information 3–4 marks	•	Makes decisions that are appropriate to the task Justifies decisions well, using relevant information 5–6 marks
Planning (P)	•	No evidence of Planning 0 marks	•	Produces an unclear and poorly sequenced time plan Shows insufficient work for the time allocated for the dishes chosen 1–2 marks	•	Produces a clear time plan with some sequencing Shows adequate work for the time allocated for the dishes chosen 3–4 marks	•	Produces a well sequenced and detailed time plan Shows sufficient work for the time allocated for the dishes chosen 5–6 marks

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Process/Tasks	Indicators The candidate:				
	No Marks	LOW	MEDIUM	HIGH	
Execution (Exe) Organisation and Management	No evidence of organisation and management 0 marks	 Requires help most of the time and is not organised Shows ineffective use of time and resources Handles food and equipment in an unsafe and unhygienic manner 1–4 marks 	 Works independently, showing some organisational ability Shows some good use of time and resources Handles food and equipment safely and hygienically some of the time 5–8 marks 	 Works independently, showing a high level of organisational ability Shows effective and economical use of time and resources Handles food and a variety of equipment safely and hygienically 9–12 marks 	
(Exe) Method	No evidence of method 0 marks	 Selects and uses equipment inappropriately most of the time Shows a high level of proficiency in the application of a few food preparation techniques Shows a high level of competency in the application of a few food preparation methods 	 Selects and uses equipment appropriately some of the time Shows a high level of proficiency in the application of some food preparation techniques Shows a high level of competency in the application of some food preparation methods 5–8 marks 	 Selects and uses equipment appropriately most of the time Shows a high level of proficiency in the application of all food preparation techniques Shows a high level of competency in the application of a variety of food preparation methods 9–12 marks 	
(Exe) Product and Presentation	No evidence of product and presentation 0 marks	 Produces food products that are low in quality and standard Presents food products unattractively and inappropriately 1–2 marks 	 Produces food products that are sufficiently good in quality and standard Presents food products fairly attractively and appropriately 3–4 marks 	 Produces food products that are of a high quality and standard Presents food products attractively and appropriately 5–6 marks 	
Evaluation (Eva)	No evidence of evaluation 0 marks	 Provides a description of the food product with little or no evaluation Identifies few strengths and weaknesses of the practical outcome 1–2 marks 	 Provides some evaluation of the food product Identifies some strengths and weaknesses of the practical outcome 3–4 marks 	 Provides an adequate evaluation of the food product Identifies most strengths and weaknesses of the practical outcome 5–6 marks 	

Total marks: 60

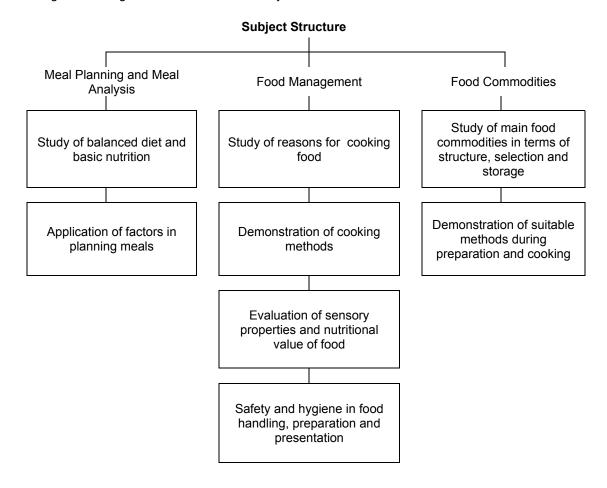
USE OF CALCULATORS

An approved calculator may be used in all papers.

SUBJECT CONTENT

The syllabus is organised into three key content areas: Meal Planning and Meal Analysis, Food Management, and Food Commodities. Within each content area, topics are presented together with the associated learning outcomes. This organisation helps the teacher to identify the content requirements and learning outcomes for students. In designing the teaching and learning, appropriate links to various topics should be made to ensure meaningful learning for students. Theory could be infused into practical work so that students could learn concepts in an authentic setting.

The diagram below gives an overview of the subject content.



Learning Outcomes

TOPIC LEARNING OUTCOMES Candidates will be able to: Meal Planning and Meal Analysis 1. Explain the term "balanced diet" a) **Balanced Diet** ii) Explain the importance of having a "balanced diet" iii) Explain the functions of different nutrients in the body: protein, carbohydrate, fat, vitamins and minerals iv) Explain the importance of water and dietary fibre (non-starch polysaccharide) in the body v) Define the term "malnutrition" Explain the factors to consider when planning meals: Planning Meals nutritional needs in relation to age (young children, school children, teenagers, elderly), gender, level of physical activity nutritional needs in terms of health status (coronary heart disease. diabetes, hypertension, obesity) individual preferences (likes/dislikes, vegetarians (lacto-vegetarians, lacto-ovo vegetarians, vegans)) ethnic customs and traditions (Chinese, Indian, Malay, Eurasian), religions (Buddhism, Christianity, Hinduism, Islam) availability of resources (seasonal, budget) Demonstrate the use of nutritional tools when planning and evaluating meals 2. **Food Management** Reasons for Explain the reasons for cooking food Cooking Food Describe how heat is transferred when food is cooked by conduction, convection Heat Transference and radiation Method of Explain the principles of different methods of cooking Dry heat: roasting, baking, grilling, Cooking Moist heat: boiling, simmering, stewing, steaming Hot fat: frying

- Microwaving
- Demonstrate the use of different methods of cooking in preparing and cooking a variety of dishes, including:
 - Pastries (shortcrust, rough puff)
 - Cakes and biscuits (rubbed-in, creamed, whisked)
 - Local cakes, desserts and pastries
 - Sauces (roux, blended)
 - Batters (thin, thick)
- Presentation of Food

Identify and demonstrate suitable ways of serving and presenting food appropriately and attractively

Evaluation of Food

Compare and evaluate the sensory properties (texture, flavour, appearance, aroma) of food

Food Safety Explain and demonstrate hygienic practices when handling, preparing and presenting food

TOPIC LEARNING OUTCOMES Candidates will be able to: **Food Commodities** 3.

- Meat and Poultry i) Name the types of meat:
 - beef, pork, mutton, chicken State the nutritional value of the different types of meat
 - ii) Identify the factors that produce tough and tender meat iii)
 - Describe the structure of meat and its effects on preparation and cooking iv)
 - Explain the factors to consider when choosing meat V)
 - vi) Explain how meat should be stored
 - Demonstrate the use of suitable methods when preparing and cooking meat
- Name the types of seafood and specific examples of these types of seafood: b) Seafood i) fish (oily, white), shellfish (crustaceans, molluscs)
 - State the nutritional value of seafood ii)
 - iii) Identify the cuts of fish (cutlet, fillet, steak, tailpiece)
 - iv) Describe the structure of fish and its effects on preparation and cooking
 - v) Explain the factors to consider when choosing seafood
 - vi) Explain how seafood should be stored
 - vii) Demonstrate the use of suitable methods when preparing and cooking seafood
- c) Cereals and Cereal Products
- Name the types of cereals:
 - wheat, corn, oats, rice, barley
- Name the types of cereal products:
 - flour, bread, pasta, noodles
- iii) Identify the basic structure of cereal grains (bran, endosperm, germ)
- iv) State the nutritional value and uses of cereal grains (bran, endosperm, germ)
- v) Explain the factors to consider when choosing cereals and cereal products
- vi) Explain how cereals and cereal products should be stored
- vii) Demonstrate the use of suitable methods when preparing and cooking cereals and cereal products
- d) Dairy Products
- Name the types of dairy products:
 - milk (full-cream, skimmed, condensed, evaporated, powdered)
 - cheese (Parmesan, Cheddar, mozzarella, cottage)
 - yoghurt and cultured milk drinks
 - butter and cream
- ii) State the nutritional value of dairy products
- iii) Explain the factors to consider when choosing dairy products
- iv) Explain how dairy products should be stored
- Demonstrate the use of suitable methods when preparing and cooking dairy products
- e) Eggs
- i) Identify the structure of an egg (air space, chalazae, egg shell, egg white, egg yolk, shell membrane)
- ii) State the nutritional value of an egg
- iii) Explain the factors to consider when choosing eggs
- Explain how eggs should be stored iv)
- V) Describe the uses of eggs
- Demonstrate the use of suitable methods when preparing and cooking eggs vi)
- Vegetables
- Name and classify the different vegetables:
 - roots, tubers, bulbs, leaves, stems, flowers, fruit, seeds (pulses and legumes)
- State the nutritional value of vegetables ii)
- iii) Explain the factors to consider when choosing vegetables
- iv) Explain how vegetables should be stored
- v) Demonstrate the use of suitable methods when preparing and cooking vegetables

TOPIC	LEARNING OUTCOMES Candidates will be able to:
g) Fruit	 i) Name and classify the different fruit: melons, berries, citrus, pome, stoned, tropical ii) State the nutritional value of fruit iii) Explain the factors to consider when choosing fruit iv) Explain how fruit should be stored v) Demonstrate the use of suitable methods when preparing and cooking fruit
h) Convenience Food	 i) Define convenience food ii) Name and classify convenience food: ready-to-eat and ready-to-cook iii) Explain the advantages and disadvantages of using convenience food iv) Explain the factors to consider when choosing convenience food v) Explain how convenience food should be stored vi) Demonstrate the appropriate use of convenience food when preparing and cooking dishes/meals
i) Flavourings and Herbs	 i) State the difference between a herb and a spice ii) State the uses of flavourings and herbs iii) Name some common herbs (coriander leaves, curry leaves, lemongrass, lime leaves, mint, oregano, rosemary, screwpine leaves, spring onion, sweet basil) and spices (cardamom, cinnamon, clove, cumin, five-spice powder, nutmeg, Sichuan pepper, turmeric) iv) Explain how herbs and spices should be stored v) Demonstrate the use of spices and herbs in preparation of dishes/meals
j) Fats and Oils	 i) Name the types of fat: animal fat (butter, ghee, lard) vegetable fat (cooking oil, margarine) ii) State the nutritional value of fats and oils iii) Explain how fats and oils should be stored iv) Explain the choice and use of fats and oils in food preparation