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HOSPITALITY STUDIES

YEAR 1 LG

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MODULE 3: KITCHEN & RESTAURANT OPERATIONS

Unit 3.1: Organising the Kitchen

Storeroom

Unit 3.2: Kitchen apparatus and equipment

- Identify, of equipment and apparatus
- Functions/correct use and handling practises
- General cleaning and caring of equipment and apparatus





ENTREPRENEURSHIP

Re-writing recipes in the standard format for local caterers at a cost

Unit 3.4: Recipes and Mise en place

- Standard format
- Mise en place of ingredients and apparatus

Unit 3.5: Measuring of Ingredients

Measure wet and dry ingredients - Mass vs Volume

KEY CONCEPTS

General care
Conversions
ingredients

Method
Heat transferral
°Celsius /Fahrenheit

Grilling
Dry frying
Shallow frying
Deep frying

SOFT SKILLS

Teamwork Attention for detail Metric conversion skills Precision Problem-solving skills Adaptability Creativity



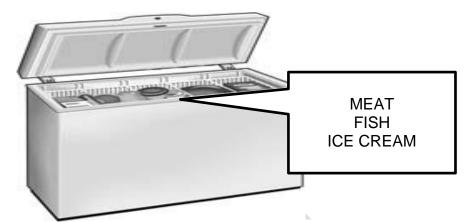
Unit 3.1 Organising the kitchen:

3.1.1 Storerooms

FOOD STORAGE AREAS:

FREEZER

- Under 18°C
- Tightly wrapped
- Label and date
- Thaw properly



REFRIGERATOR / COLD ROOM

- Keep perishable food below 7°C
- Do not overload
- Store raw and cooked separately
- Keep food covered
- Hot food should cool down first
- Keep door shut
- Keep shelves clean
- Check temperature daily
- Defrost and clean regularly



DRY STORAGE

- Cool dry place
- Not against walls or on floor
- Keep containers tightly closed
- Inspect goods for damage & expiry dates
- Inspect stored goods regularly
- Clean food stores regularly
- Store same kind food together
- In specific place



WHEN STORING FOOD ALWAYS REMEMBER FIFO FIRST IN FIRST OUT



INFORMAL ACTIVITY

Complete the following worksheet on Storeroom Storage

1. Food storage	Date:	
1.1 Indicate what the term FIFO means		(1)

- 1.2 The following items have been bought for an evening function taking place the following day:
- •A whole frozen chicken
- •Flour
- •Oil
- Dried breadcrumbs
- Salt

- Eggs
- Potatoes
- Apricot jam
- •Cheese
- •Frozen peas

- Packet of frozen fish
- •Fresh milk
- •Long life cream
- Margarine
- Tomatoes

Draw a table to indicate where you would store each of the items and also indicate the temperature for each storage

Temperature	(1)	(1)	(1)
Products	(2)	(2)	(2)

(9)



INFORMAL ACTIVITY

Organising the Kitchen

Work in Pairs: get to know work units / storeroom with apparatus; packing and organising apparatus

INSTRUCTION:

Workstation unit activity:

- 1. Learners to work in pairs in their work unit in the training kitchen.
- 2. Educator will give learners the list of apparatus stored in the work unit.
- 3. Each learner to take turns in being able to correctly identify each apparatus on the list.

LIST OF APPARATUS	TICK IF CORRECT
A measuring spoon	
B egg lifter	
C cake tin	
D saucepan	
E sifter	
F measuring cup	
G eggbeater	

Storeroom Activity:

- 1. Learners to work in pairs.
- 2. Each pair is given a minute to go into the storeroom and look at how the apparatus are organised.
- 3. They must then draw a diagram of what is stored where in the storeroom (1 storeroom diagram per group)
- 4. Each group is given a list of 5 storeroom items, e.g., baking sheet, whisk, saucepan, grater, mixing bowl.
- 5. The learners are required to determine where these items will be stored by correctly writing the name of each of these items on their diagram of the storeroom.

If time allows:

The learner is to go into the storeroom and place the item in its correct place in the storeroom.



INFORMAL ACTIVITY

25

Practical demonstration:

• Washing/sanitising of hands

INFORMAL ACTIVITY	
WASHING OF HANDS	
WASHING/SANITISING OF HANDS	

Surname, I	Name:			Year 1
MODULE Hygiene, Security	Safety	and	OBJECTIVES: Learners will be able to: • Wash hands using correct procedures • Know which sanitizers to use	SOFT SKILLS

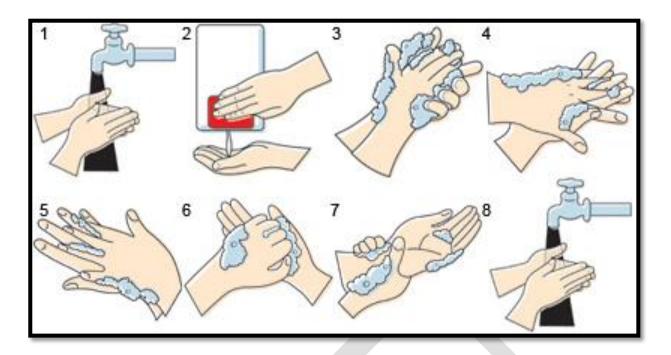
A] INTRODUCTION

1. Watch the video below and study the following notes before attempting your practical lesson.

https://www.youtube.com/watch?v=ZZRZILGxt3A

B] Demonstrate how to effectively and successfully wash your hands. Tick YES or NO and write a comment if necessary.

ACTION PERFORMED	YES	NO	COMMENT
1.1 Wet the hands and forearms with hot			
water.			
1.2 Used anti-bacterial, liquid soap.			
1.3 Wise use of liquid soap/sanitiser.			
1.4 Lather the hands and forearms with			
soap			
1.5 Wash the hands thoroughly for at least			
10 seconds.			
1.6 Brush the nails with a nail brush.			
1.7 Rinse the hands under hot, running			
water			
1.8 Dry the hands with disposable paper			
towel or with a hot air dryer.			
1.9 Dispose paper towel in the allocated bin.			
1.10 Ensuring that the cleanliness of the			
wash basin has been maintained.			
		TOTAL	10



C] Make a Collage of 10 pictures of different types of soap, sanitizers or cleaners suitable for use in the hospitality industry, and label it no 1 to 10. Allocate each item with a ✓underneath in the table provided, to an area where it will be most effectively used.



Item no	Housekeeping -	Public	Front desk	Kitchen	Waste area
	floors	areas			

TOTAL:				

Develop a visual informative poster for the kitchen on effective ways to save water.





TOTAL: 5 MARKS

INTRODUCTION

Kitchen and restaurant operations are essential activities that are carried out to run a successful business.

In this module we will be focusing on the different kitchen utensils and their care, the metric measurement system for measuring wet and dry ingredients, recipes in the standard format, the main elements of heating and cooking methods, namely moist and dry heat methods.



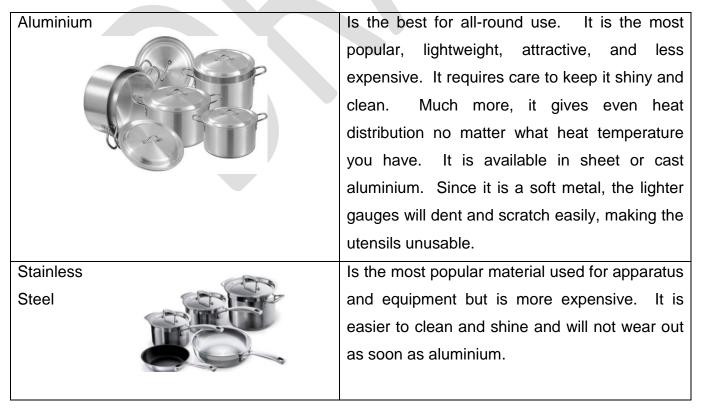
Unit 3.2: KITCHEN APPARATUS & EQUIPMENT

Any cook should be familiar with the correct utensils, apparatus, and equipment in the kitchen. It is important to consider several things and not only the price when buying them. Cooking requires specific tools, utensils, and equipment for proper and efficient preparation of food. Each piece has been designed to accomplish a specific job in the kitchen.

The utensils, apparatus, and equipment are made of different materials, each having certain advantages and disadvantages. The following lists are materials of kitchen utensils and equipment commonly found in the kitchen.

3.2.1 Identify basic large kitchen equipment and small kitchen apparatus

Different materials used



Glass	Is good for baking but no practical on top or
	surface cooking. Great care is needed to ensure
	a long shelf life.
	a long shell life.
Cast Iron	Is sturdy but must be kept seasoned to avoid
Cast Horr	rust. Salad oil with no salt or shortening can be
	rub inside and out and dry. Wash with soap (not
	detergent) before using.
	detergent, before daing.
Ceramic and	Glass and ceramic conduct the heat slowly and
heat-proof	evenly. Many of these baking dishes are
glass	
	decorated and can go from stove or oven to the
	dining table.
Teflon	Is a special coating applied to the inside of
	some aluminium or steel pots and pans. It
	helps food from not sticking to the pan. It is
	easier to wash and clean, however, take care
	not to scratch the Teflon coating with sharp
	instrument such as knife or fork. Use wooden
	or plastic spatula to turn or mix food inside.
Plastic and Hard Rubber	Are used for cutting and chopping boards,
	tabletops, bowls, trays, garbage pails and
	canisters. They are much less dulling to knives
	than metal and more sanitary than wood.
	Plastics are greatly durable and cheap but may
	not last long.

SMALL KITCHEN APPARATUS AND UTENSILS: MEASURING EQUIPMENT

Equipment	Name	Use
	Measuring spoons	Used for small quantities of wet and dry ingredients
	Measuring cups	Used to measure solids and dry ingredients, such as flour, fat and sugar. Made of aluminium or stainless material, and plastic and comes in different colours.

	Measuring jug	Used for large amounts of wet ingredients Commonly made up of heat-proof glass and transparent so that liquid can be seen.
	Kitchen scale	Used for large amounts of dry ingredients, e.g. rice, flour, sugar, legumes or vegetables and meat up to 5 kg.
THE STATE OF THE S	Temperature thermometers	Used to measure heat intensity. Different thermometers are used for different purposes in food preparation – for meat, candy or deep-fat frying.

SMALL KITCHEN EQUIPMENT AND UTENSILS: CUTTING UTENSILS

TK BANGO I	Chef's knife	Cutting and chopping of fruit, vegetables or even meat.
	Bread knife	Cutting bread or pastry, the serrated edge does not blunt easily.
	Sharpening steel	Used to sharpen long knives.
	Paring knife	Peeling and cutting of vegetables or fruit.

SMALL KITCHEN EQUIPMENT AND UTENSILS: PREPARATION EQUIPMENT

Equipment	Name	Use
7999	Wooden spoons	Stirring and beating. Rubbing ingredients through a sieve. Creaming butter and sugar together.

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Pasta spoon or server	Is used to transfer a little or much cooked
	pasta to a waiting plate, without mess.

		Pasta spoons are best used with spaghetti-style or other long pasta noodles: you can use a large, slotted serving spoon for short pastas.
	Spatula / scraper	A rubber or silicone tools to blend or scrape the food from the bowl. Scraping leftover mixture from bowls. Decorating of cakes. Spreading a mixture in a baking tin or pan.
	Vegetable peeler	Used to scrape vegetables, such as carrots and potatoes and to peel fruits. The best ones are made of stainless steel with sharp double blade that swivels.
	Potato masher	Mashing potatoes or other soft, cooked vegetables or fruit, e.g. potatoes, turnips, carrots, etc.
lever corkscrew can opener can opener wine waiter corkscrew	Cans, bottles, cartoons opener	Use to open a food tin, preferably with a smooth operation, and comfortable grip and turning knob.
shutterstock.com - 1037489186	Colander	Also called a vegetable strainer are essential for various tasks from cleaning vegetables to straining pasta or tin contents.
	Cutting boards	A wooden or plastic board where meats and vegetables can be cut. Different colour codes are available.
	Dredgers	Used to shake flour, salt, and pepper on meat, poultry, and fish.

	Funnels	Use to fill jars, made of various sizes of stainless steel, aluminium, or of plastic.
	Garlic press	Is a kitchen tool which is specifically designed for the purpose of pulping garlic for cooking purposes.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Graters	Used to grate, shred, slice and separate foods such as carrots, cabbage and cheese.
	Kitchen shears	They are practical for opening food packages, cutting tape or string to package foods or simply to remove labels or tags from items.
	Palette knife	Lifting biscuits etc. from baking sheets. Turning pancakes. Spreading icing on a cake.
	Balloon whisk	Used for whipping eggs or batter, and for blending gravies, sauces, and soups.
Acciantinguestom	Mixing bowls	Container for mixing your ingredients in.

Pastry brush / baster	Brushing glazes onto food, e.g. tops of breads and baked goods after they come out of the oven, and returning some of the meat or poultry juices from the pan, back to the food. Greasing baking tins.
Rolling pin	Rolling out biscuits and pastry.
Flipper / egg lifter	Use for turning hamburgers and other
	food items.

SMALL KITCHEN EQUIPMENT AND UTENSILS: COOKING & BAKING EQUIPMENT

Equipment	Name	Use
	Frying pan	Frying of eggs, vegetables, meat etc.
A CONTRACTOR OF THE PARTY OF TH	Casserole Pots	Used for cooking of different food types, like vegetables, starches, meats, soups etc.
	Pressure cooker	Use for cooking of tough foods like certain meat cuts. Making stews.

Double boiler	Used when temperatures must be kept below boiling, such as for egg sauces, puddings, and to keep foods warm without overcooking.
Baking sheet	Baking of biscuits etc.
Cake tin	Baking of cakes or breads

SERVING UTENSILS

Equipment	Name	Use					
C	Serving spoons	A utensil consisting of a small, shallow bowl on a handle, used in preparing, serving, or eating food.					
	Serving tongs	Enables you to grab and transfer larger food items, poultry or meat portions to a serving platter, to a hot skillet or deep fryer, or to a plate more easily.					
	Soup ladle	Is used for serving soup or stews, but can also be used for gravy, dessert sauces or other foods. A soup ladle also works well to remove or skim off fat from soups and stews.					

LARGE EQUIPMENT

Equipment	Name	Use				
	Sink	Washing dirty dishes and kitchen equipment.				
	Stove	Cooking or baking of food, using the plates (hobs) or oven.				
ROOT SEED OF THE PARTY OF THE P	Microwave Ovens	Foods can be prepared ahead of time, frozen or refrigerated during slow periods, and cooked or heated quickly in microwave ovens.				
	Refrigerator	Cold storage of perishable foods. It is an insulated box, equipped with refrigeration unit and a control to maintain the proper inside temperature for food storage.				
	Freezer	Freezing of foods to be kept over a long period. It is an insulated box, equipped with refrigeration unit and a control to maintain the proper inside temperature for food storage.				

	Deep fryer	Used to cook foods in deep oil They make foods, e.g. crispy chicken wings, fish, French fries and other foods quickly and easily
THE PARTY NAME OF THE PARTY NA	Griller	Has a metal framework and a flat or grated surface for cooking food over direct heat.

GENERAL CARE AND CLEANING

Basic Utensil Care

The best kitchen utensil care follows the basic steps of cleaning, rinsing, sanitizing, and any necessary upkeep prior to storing away. Utensils made of silver or wood require additional upkeep steps that you can DIY using basic household supplies.

How to Clean Utensils

Utensils should be washed in hot water with dish soap and rinsed with clean water. Different chemical solutions are available for sanitizing utensils.

How to Care for Metal Utensils

Some metals, like stainless steel, are designed to be sturdy, resilient to rust, and easy to sanitize. Others such as silver <u>need more care</u>.

How to Care for Silver Utensils

It's not recommended to wash silver or silver-plated utensils in a dishwasher due to the risk of tarnishing. Washing silver and stainless steel together can also discolour the silver utensils, or worse, lead to a pitting corrosion reaction in the silver.

• How to Care for Wooden Utensils

The best wooden utensils for cooking and serving food will be solid and non-porous. Wood can absorb food and food smells. Sealing the wood with a food grade oil will stops unwanted absorption, and also prevent the wood from cracking and splintering.

How to Care for Plastic, Nylon, and Silicone Utensils

Utensils made from polymers such as plastic, nylon, and silicone all follow the wash, rinse, and sanitize procedure.

How to Care for Utensils Made of Multiple Parts

The small crevice where the tool side of utensil meets its handle can be overlooked, resulting in a reservoir for bacteria, rust, and deterioration. Spatulas, whisks, and knives are examples of utensils that often connect a separately built tool to its separately built handle.

Use a sturdy toothpick or small bristle-brush (like a toothbrush) to clean the small gaps found in these kinds of assemblies.

How to Care for Knives

Pay special attention to cleaning knives made from multiple parts. Next to keeping them clean, <u>keeping</u> <u>knives sharp</u> is the most important aspect of knife care. DIY knife care can save you a lot of money and the inconvenience of waiting for your knives to be returned.

CARING FOR APPLIANCES

Enamel areas

- Wipe over while still warm with a damp, soapy cloth. Dry with a soft cloth.
- Always wipe spills immediately so they do not dry or cook onto surfaces.
- Use a liquid cleaner to remove stubborn marks and avoid scouring pads or powder, which can scratch enamels.

Control panel

- Wipe over, and occasionally remove, and wash knobs.
- · Wipe off any build up on the panel.

Burners (natural gas)

- For day-to-day cleaning, wipe over the burners after each use. Aluminium should be rubbed over with soapy steel wool pads.
- Brass and stainless steel should be washed in hot, soapy water. Always rinse and dry well.
- Light burners to check correct replacement.
- Pan supports or trivets. Wash in hot, soapy water. If they are very greasy soak in a solution of one tablespoon of washing soda to 4.5 litres of very hot water.

Griller

- Remove griller tray before cleaning.
- Wash in hot, soapy water, using a fine, soapy steel-wool pad on heavily soiled areas.
- Rinse and dry well.
- Wipe out griller compartment with warm, soapy cloth.
- Clean racks as for oven shelves.

Oven

- It is easier to clean the oven while it is still warm, but not hot.
- Remove shelves and other moveable parts and wash in a hot-water detergent solution.
- Stubborn spillage may require the use of a commercial cleaner.
- Wipe over oven shelves, occasionally rubbing with a soapy fine steel-wool pad.

Glass areas

- Clean over with a hot, soapy cloth remember most oven doors lift off for easy cleaning.
- Avoid soaking glass doors as it may damage the insulation.

STORAGE OF KITCHEN APPARATUS

- 1. Dry all baking tools and equipment by air-drying on a drying rack or wiping with a dry dishcloth. Make sure all wooden spoons and accessories are dry before storing.
- 2. Store all tools and equipment in their designated places. Put frequently used items in conveniently accessible locations. Gather and secure electrical cords to prevent entanglement or snagging.
- 3. Proper storage and handling of cleaned and sanitized equipment and utensils is very important to prevent recontamination prior to use.



INFORMAL ACTIVITY

Word Search

Circle the correct word on kitchen utensils.

KITCHEN APPARATUS AND EQUIPMENT UTENSILS





Find the hidden words within the grid of letters. Shade or circle the words when you find it.

М	Α	R	W	Α	Т	С	Н	K	С	E	D	Р	М	0	С	М	R	N	N
Т	Е	N	Е	Е	V	K	E	0	R	В	0	Е	I	0	Е	L	Е	0	0
Α	S	Α	М	D	R	J	R	W	G	J	Α	L	L	Α	V	Α	Н	Р	Р
Т	L	С	S	0	N	K	R	0	Z	T	Р	S	Х	L	R	S	S	G	G
L	U	U	F	U	S	E	R	E	С	K	N	U	G	W	J	U	Α	N	N
V	Е	Е	T	С	R	L	L	L	N	D	R	Р	L	N	G	В	М	I	I
S	Q	N	R	Α	E	T	E	В	Е	I	Υ	W	В	N	F	K	0	Т	Υ
S	Z	Е	N	R	Р	Α	N	R	N	S	Α	N	0	R	Р	Α	Т	S	R
Т	W	W	Х	U	V	S	Е	G	G	G	N	Т	R	K	K	Υ	С	Α	F
V	Υ	Z	F	Е	F	Е	С	С	S	G	R	Α	Т	Е	R	Α	Т	Q	0
J	L	L	R	Е	М	U	В	G	Υ	Р	Υ	Υ	Н	S	Α	Р	0	R	R
М	N	Υ	N	I	Р	G	N	I	L	L	0	R	L	Α	R	М	Р	V	Α
С	Α	N	0	Р	Е	N	Е	R	L	R	W	0	В	G	N	I	Х	I	М
М	S	Т	0	Α	S	Т	Е	R	L	Е	Т	0	N	G	S	K	K	Z	L
S	Е	Н	D	Α	L	J	U	Т	W	D	М	G	М	S	K	Е	I	L	Α
V	G	Α	R	L	I	С	Р	R	Е	S	S	Α	R	K	Т	S	L	Н	D
					1		l .				1			1				1	

F	С	Α	D	R	Q	D	J	Р	М	U	Т	Е	Е	Т	N	I	I	М	L
В	0	V	Е	N	М	I	Т	Т	S	0	Х	Н	L	Т	R	I	Q	Н	Е
G	Н	Р	0	K	I	Х	K	U	R	I	R	Е	Υ	G	S	W	F	J	W
С	Q	G	Е	В	V	Q	Q	Н	М	L	Z	F	Т	Т	Н	Т	D	Е	Р

apron	frying pan	knife	mixing bowl	steamer
blender	funnel	ladle	oven mitts	strainer
can opener	garlic press	measuring cups	potato masher	toaster
colander	grater	measuring spoons	roasting pan	tongs
corkscrew	grill	meat cleaver	rolling pin	whisk
fork	kettle	mixer	spatula	wok



PRACTICAL LESSON 1: WRITTEN PERFORMANCE TESTS

Identification Test:

- Identification of kitchen equipment and apparatus.
- Demonstrate / explain the use and care of each.

PRACTICAL LESSON 1 – WRITTEN PERFORMANCE TEST - IDENTIFICATION TEST



KITCHEN APPARATUS AND EQUIPMENT

Surname, Name:	TOPIC	Gr 8:
OBJECTIVES: Students will be able to: Identify small and large kitchen equipment Demonstrate /explain the use and care of it.	Kitchen and Restaurant Operations	SOFT SKILLS: • Decision Making • Attention to detail

Identify the following kitchen equipment and indicate the use of each one:

EQUIPMENT	NAME	USE
MICHAEL TO COMMITTEE TO COMMITT		



TOTAL: 30 MARKS (CONVERT TO 25)



RESOURCES

VIDEOS:

https://www.youtube.com/watch?v=71cvSqZSwi0

Kitchen Utensils in The Professional Kitchen And What Equipment You Need At Home

https://www.youtube.com/watch?v=H7FxjEe31QE

Kitchen Equipment And Utensils And Their Uses

http://youtube.com/watch?v=dayOQPXCccA

How To Clean Tools for The Kitchen

http://youtube.com/watch?v=eyl5--dMHXU

How To Clean and Santise Kitchen Tools And Equipment

https://www.youtube.com/watch?v=NELxe2U4HcQ How To Clean Kitchen Appliances



Unit 3.3: RECIPES AND MISE EN PLACE

INTRODUCTION

What is a Recipe?

- It is a map or tool used by the chef or cook to prepare the dish correctly.
- It is a written record of the ingredients and preparation steps (method) needed to make a particular dish.

Ingredients are the The instructions or A dish is the item that food products such as the method indicates can be eaten after all milk, eggs, baking what must be done ingredients in the powder and cheese with each ingredient or recipe was mixed and used to prepare a dish. groups of ingredients cooked. together before it can become a dish. Method: 1. Heat the oven to 200°C. Break 2 eggs into a 2. measuring jug. 3. Add milk up to the 250 ml mark and pour into a large mixing bowl. 4. Add 5 ml salt and beat well. 5. Add 125ml oil to the mixture. 6. Add 250 ml cake flour and 15 ml baking powder and beat very well. 7. Fill paper muffin cups 1/3 full. 8. Sprinkle with cheese and grated Vienna sausages. 9. Fill muffin cups till almost full with the rest of the muffin mixture. 10. Sprinkle with Aromat. 11. Bake for 10 - 15 min until golden brown.

Why must I read through a recipe Source: thepioneerwoman.com& thegreatbritishbakeoff.co.uk

- Recipes list the exact ingredients to use in the logical order in which they are prepared.
- Ingredients and instructions must produce the same result every time.

What is a good recipe?

A recipe that saves:

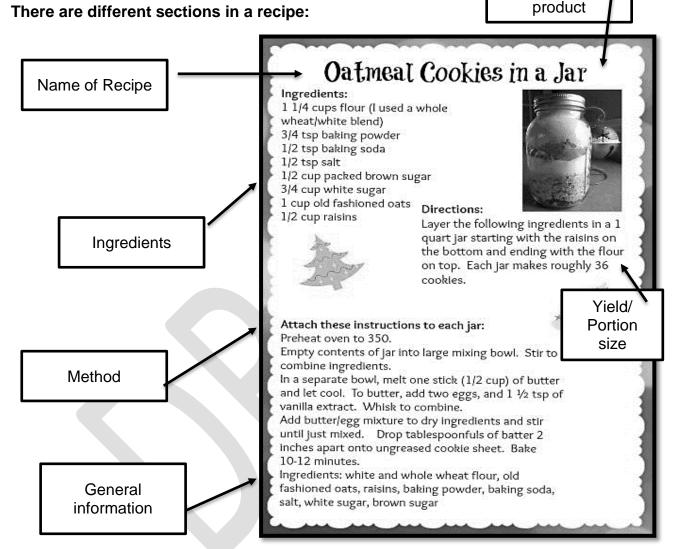
- money,
- labour and
- time

3.3.1 RECIPE LAYOUTS - Standard Recipe

Standard format – ingredients are listed according to the sequence of use. Thereafter, the method follows in steps. A standardized recipe must follow a format that is clear to anyone who used them. It lists the ingredients first, in the order they are to be used, followed by assembly directions or the

method for putting the ingredients together

There are different sections in a recipe:



[Source: www.pinterest.com]

Picture of

3.3.2 MISE EN PLACE IN THE KITCHEN



[Source: www.youtube.com]

Mise-en-place is French for "to put in place" It refers to the preparation done before cooking or service, either in the kitchen or in the restaurant.

Food preparation mise-en-place includes:

- Getting all equipment and utensils ready that are required to make the dish or meal.
- Locating and then measuring all the ingredients.
- Preparing the ingredients, for example grating, chopping, boiling, cutting, marinating, or making stocks.
- Switching on all equipment and selecting the correct temperatures.

Advantages of mise-en-place

Mise-en-place helps with effective kitchen organisation and workflow by limiting movements of team workers and saving time.

This process also:

- Ensures that the work is done correctly, and that equipment and ingredients are available.
- Prevents wastage as preparation is done for the correct number of guests.
- Ensures successful food production.



Preparing the area and the equipment.





[Source: www.motherwouldknow.com & www.twohealthykitchens.com]

Before you collect or mix ingredients for any dish, you need to prepare the area and equipment as follows:

- Make sure that surfaces are clean (and sprayed with an antibacterial spray)
- Collect and arrange the equipment for the particular dishes that you need to prepare. Also
 collect any additional equipment that may not be close at hand specialised equipment that is
 not stored at the unit.
- Sharpen the knives with the sharpening steel.
- Turn the oven indicator to the required temperature.
- Prepare baking sheets by greasing, or greasing and flouring, or greasing and lining with paper.

Collect the ingredients

- Once the equipment has been collected and the area prepared, it is necessary to collect the ingredients required for the recipe that you are going to prepare.
- The recipe will give you the list of the ingredients, the quantity required, and the preparation required of each ingredient, the quantity required, and the preparation required of each ingredient you need to collect before starting to cook the dish.



[Source: twohealthykitchens.com]

Preparing ingredients involves preparing all the ingredients necessary to make a particular dish in advance.

You need to:

- Measure or weigh the required ingredients accurately.
- Prepare the ingredients by, for example, washing, chopping, cutting, marinating and/or making stocks.
- Place the prepared ingredients in individual bowls or containers.

Depending on the recipe, mise-en-place involves chopping, slicing, shredding and grating ingredients.

As you prepare the ingredients, you need to carry out the various tasks in a logical sequence, e.g., you would first wash the vegetables, then peel them and finally chop them.

You should also try to finish one task at a time before you start the next step. Avoid doing too many tasks at the same time.

Basic general skills required for mise-en-place - Knife skills

Cutting techniques:

- Slicing
- Dicing
- Peeling
- Chopping
- Chiffonade
- Precision cuts such as julienne, batonettes, brunoises, paysanne and turning of vegetables.



[Source: www.reluctantgourmet.com]

Other skills required for mise-en-place - Pre-preparing ingredients

Examples are:

- Toasting nuts
- Making breadcrumbs
- Melting butter
- Grating foods
- Flavouring foods with herbs and spices by adding flavouring to stocks and soups, making a marinade or a rub to add extra flavour to meat and fish.
- Infusing cooking liquids with herbs or spices.
- Blanching or parboiling food.

Recipe techniques:

1.	Preparation of pans: Pans are sprayed with greasy food spray or rubbed with butter/margarine or lined with baking paper before baking.	Spray
2.	Sifting: Dry ingredients like flour, baking powder and salt are sifted together to incorporate air.	
3.	Cutting in: Butter or margarine is cut into a flour mixture with a pastry cutter until the mixture looks like coarse mealie meal. Rubbing in:	
	Can also be used instead of cutting in – butter or margarine is rubbed into flour with the finger points until it looks like coarse mealie meal.	
4.	Mix: Use a wooden spoon and stir all around in the bowl until all ingredients are evenly spread.	
5.	Beat: Use a beater to beat egg whites until foamy. In this way air is incorporated.	

	DESCRIPTION OF TECHNIQUE	ILLUSTRATION
6.	Stir:	

	Hold a wooden spoon upright and stir with circular movements on the base of the mixing bowl to evenly mix ingredients.	
7.	Press out: Use cookie cutters to press out shapes for biscuits or scones from dough.	
8.	Scraping out: Use a scraper to scrape batter out of a mixing bowl (to wipe out the last bit from the mixing bowl)	
9.	Cooling of baked products: Hot, baked products are placed on a cooling rack after removing them from the oven to allow them to cool off. Cakes may only be removed from the pans once they are properly cooled off.	
10.	Draining of fried food: To remove extra oil by using absorbent kitchen towel.	
11.	Grate: Use a grater and rub something such as cheese, up and down against rough blades on the outside of a grater, to break it up in small, even pieces.	



UNIT 3.4: MEASURING OF INGREDIENTS: MASS VS VOLUMNE

The metric system is easy to learn and simple to use. The following unit presents some important measuring equivalents, tables, and conversions.

Unit (Symbol)	Quantity	Uses
millilitre (ml)	Smaller volumes	For measuring most liquids.
litre (I)	Large volumes	For measuring larger amounts of liquids or the volume of pots, mixing bowls, etc.
gram (g)	Smaller weights	For measuring the majority of non-liquid ingredients, including flour, sugar, meats, cheeses, butter etc.
kilogram (kg)	Large weights	For measuring larger quantities of non-liquid ingredients, including meats, fruits, and vegetables.

OVEN TEMPERATURE

Temperature in the metric system is usually measured in degrees Celsius (°C).

Degrees Celsius	Old School
100° C	Very cool oven
120° C	Very cool oven
140° C	Cool oven
150° C	Cool oven
160° C	Very moderate oven
180° C	Moderate oven
190° C	Moderate oven
200° C	Moderately hot oven
220° C	Hot oven
230° C	Hot oven
246° C	Very hot oven

MEASURING INGREDIENTS CORRECTLY

Accurate techniques in measuring are as important as the tools for measuring.

Therefore, always observe the following procedures:

 Rice and flour. Fill the cup to overflowing, level-off with a spatula or with a straightedge knife



[Source:



www.thecookinggeek.com]

Refined sugar. Sift sugar once to take out lumps, if any. Spoon into cup and level off
with a spatula. Do not pack or tap the sugar down.





[Source: www.123rf.com]

Brown sugar. Pack into cup just enough to hold its shape when turned out off cup.
 Level off with a spatula before emptying.





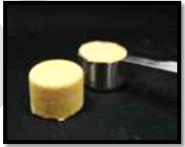
[Source: www.recipetips.com]

 Level a measuring spoon with straight edge of a knife to measure small amounts of salt, pepper, leavening agents or solid fats. Liquid ingredients. Liquid measuring cup – a glass or plastic cup with graduated markings on the side. Place the cup on a flat, level surface. Hold the cup firmly and pour the desired amount or liquid into the cup. Lean over and view the liquid at eye level to make sure it is the proper amount.



measure by volume and by standardized measuring tools

- Ingredients which weight demand and equipment.
- Do not shake the dry measuring cup to level off dry ingredients.
- It is easier to weigh fat, butter, margarine if bought in pre-measured sticks. If fat does not come in pre-measured sticks, use a scale to weigh the needed amount.



- Spring scales should be adjusted so that pointer is at zero (0). Place pan, bowl, or piece of waxed paper on scale to hold ingredient to be measured.
- When using balance scales, place the pan on the left-hand side of the balance and the pan weight on the right-hand side. Add the required weights to the right-hand side and adjust the beam on the bar so that the total is the weight needed.



[Source: www.gwydir.demon.co.uk]



INFORMAL ACTIVITY

Measuring of ingredients: flour, water, and margarine (volume and mass)

1. Study the set of measuring spoons:

1.1 Label each spoon with the volume that it measures.
State the amount and the unit.



1	4	١
١,	┱	,

- 1.2 Answer the following questions regarding the use of measuring spoons:
- 1.2.1 5 ml = ONE _____.
- 1.2.2 2.5 ml = _____ a ____
- 1.2.3 15 ml = ONE _____

(4)

1.3 Which spoons will you use to measure the following amounts of ingredients?

EXAMPLE: 7.5 ml Vanilla essence = 5 ml + 2.5 ml = 7.5 ml

- 1.3.1 12.5 ml sugar = ____ + ___ = 12.5 ml
- 1.3.2 20 ml oil = _____+ = 20 ml
- 1.3.4 17.5 ml baking powder = _____ + ____ = 17 ml
- 1.3.5 30 ml cornflour = _____ + ___ = 30ml

(8)

1.4 Name TWO examples of kitchen equipment that can be used to level the amount of ingredients in a measuring spoon.

(2)

2. Study the set of measuring cups:

2.1 Label each cup with the volume that it measures. **State the amount and the unit.**

 $8 \times \frac{1}{2} = (4)$



2.2 Answer the following questions regarding the use of measuring cups:	
2.2.1 250 ml = ONE	
2.2.2 125 ml = a	
2.2.3 500 ml = cups.	
	(4)
2.3 Which cups will you use to measure the following amounts of ingredients?	
EXAMPLE: 185 ml Milk= <u>125 ml + 60 ml = 185 ml</u>	
2.3.1 625 ml sugar = + + = 625 ml	
2.3.2 375ml flour = + = 375 ml	
2.3.3 310 ml rice = + = 310 ml	
2.3 4 75 ml salt = + = 75 ml	
2.3.5 70ml coconut = + = 70 ml	
	(12)
2.4 Why must measuring cups get rinsed with hot water before syrup is measured?	?
	(2)
TOTAL 40	
TOTAL: 40	MARKS
3. METRIC MEASUREMENTS	
3.1 Study the following recipe below and answer the questions related to metric measurements.	
CUSTARD COOKIES:	
INGREDIENTS	

60 ml	Castor sugar Custard powder Cake flour BP egg, beaten Vanilla essence	
METH	OD:	
1.	Sift the dry ingredients together and add to the margarine mixture.	
	Set the oven to 200 degrees C and grease the baking tray.	
3.	Bake at 190 degrees C until light brown, about 10-15 min. Cool on cooling rack.	
4.	Using a wooden spoon, cream margarine and castor sugar.	
	Add the egg and vanilla essence to the dry ingredients and mix to a soft	
	dough.	
6.	Roll into balls and press with a fork. Garnish with cherries.	
3.1.1	Identify all the following ingredients:	(4)
•	Wet ingredients	(4)
•	Dry ingredients	(3)
3.1.2	Is the oven temperature written correctly? Give a reason for your answer.	(2)
3.1.3	Give the correct abbreviation for the following terms.	
	A) Millilitre	
	B) Gram	
	C) Grade Celsius	
	D) Kilogram	(4)
3.1.4	How many grams in 2 kilograms?	(1)
3.1.5	Explain with a picture how to measure 250 g of butter.	(5)
3.1.6 I	Name which measuring equipment you will use for the following:	
	A) butter B) BP	



125 g

butter

PRACTICAL LESSON 2: PERFORMANCE TESTS

Performance test:

C) vanilla essence

Washing / sanitising of hands.

Measuring of ingredients: flour, water, and margarine (volume and mass).

(3)

WASHING AND SANITISING HANDS / MEASURING OF INGREDIENTS

Surname, Name	Topic	Year 1:
OBJECTIVES: Students will be able to: • Keep hands hygienic when handling food. • Measure accurately • Work effectively with equipment	Kitchen and Restaurant Operations	SOFT SKILLS: Decision Making Attention to detail Communication Teamwork

ASSESSMENT				
Washing /Sanitising Hands	Measuring	Conclusion	TOTAL	CUE TES
[5]	[15]	[5]	[25]	

1] List the 10 steps you would follow to wash hands hygienically. Perform the washing of your hands as listed by you.

STEPS TO FOLLOW TO WASH HANDS HYGIENICALLY	YES	NO

	TOTAL

10/2 **[5]**

2.1] Study the recipe below and measure each ingredient accurately using the correct equipment. [5]

MEASURING INGREDIENTS

TECHNIQUE/S: Measuring of dry ingredients

Recipe:

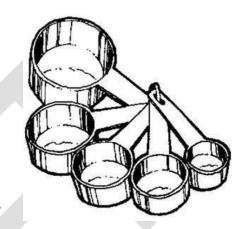
SHERBET

3ml bicarbonate of soda 2ml citric acid 30ml icing sugar 5ml flavoured jelly crystals (optional)

Method:

1. Measure all the ingredients in a small mixing bowl.

2. Dip your finger into the mixture to taste.





INGREDIENTS	Quantity needed	MEASURING EQUIPMENT
Bicarbonate of soda	3 ml	
		(1)
Citric Acid	2 ml	
		(1)
Icing Sugar	30 ml	
		(1)
Flavoured jelly crystals	5 ml	
		(1)
1. Washing of hands		(1)

INGREDIENTS		Quantity needed	MEASURING EQUIPMENT
Maize meal		½ cup	(2)
SUPPE MAIZE COME TO PURSUE PER MAINE PROPERTY AND PURSUE PER MAINE PROPERTY AND PURSUE PER MAINE PER MAIN		1 cup	(2)
TWO METHODS TO USE		3 cups	1. 2. (4)

Sugar		
c.esq.	⅓ cup	(2)
Huletts Pure Bugar - Pure Sweetheas White Sugar	¾ cup	(2)
	¾ cup	(2)
Water		
	200 ml	(2)
	375 ml	(2)
	11	(2)

3. Based on your knowledge of Personal Hygiene and kitchen equipment, develop your own conclusion:

The learner will develop his/her own conclusion, based on his/her knowledge regarding Personal Hygiene and equipment.

- Indicate in your conclusion why it is important to wash / sanitise hands.
- Indicate in your conclusion why it is important to measure ingredients accurately.
- Indicate why correct equipment must be used to measure ingredients. (5)

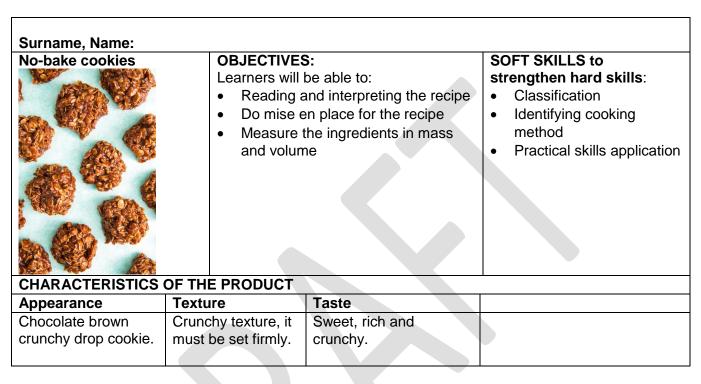
TOTAL:25 MARKS











ASSESSMENT									
you		"Clean as you go" [4]	Prep sheet	Final product		Questions	TOTAL		
				[5]	[6]		[5]	25	
Hair	2				Appearance	2			
Nails	1				Texture 2				
Apron	2				Taste	2			

A. INTRODUCTION (5 minutes)

B. Study the recipe carefully and complete the mise en place form provided.

Rolled oats Chocolate Droplets Yield 24 drop cookies

Ingredients

125 g Margarine500 ml Sugar125 ml Cacao

125 ml Milk

750 ml Rolled oats 250 ml Coconut

5 ml Vanilla essence

Method

- 1. Heat the margarine, sugar, cacao and milk together in a pot while stirring.
- 2. Simmer for 5 minutes then remove from stove.
- 3. Add all the other ingredients and mix thoroughly till mixture is a stiff mix.
- 4. Place spoonful of the mixture onto a greased baking tray.
- 5. Place in fridge to set.



C. Mise en place

NAME OF RECIPE: Jacket Potatoes					
Ingredients	Recipe Amount	Mise en place of ingredients [2]			
Mise en place-apparatus [2]		Mise en place of additional equipment not found at your work station [1]			
		Number of particular			
Toobnique Applied		Number of portions: [1]			
Technique Applied:		[1]			
Description of dish:		[1]			

Oven/temperature control on stove:	[1]
Cooking Method:	[1]
	TOTAL = 20

C. ANSWER THE FOLLOWING QUESTIONS

1. Differentiate between boiling and sautéing of vegetables.

[2]

2. List THREE general rules when boiling food.

[3]

TOTAL: 25 MARKS





SKILLS TEST 1

Preparation of a no-bake product e.g., no bake drop cookies or slices or instant coconut ice / quick biscuit fudge:

- Reading and interpreting the recipe
- Do mise en place for the recipe
- Measuring of ingredients

Surname, Name:

Year 1:

SKILLS TEST 1 Preparing a no-bake product



OBJECTIVES:

Learners will be able to:

- Reading and interpreting the recipe
- Do mise en place for the recipe
- Measure the ingredients in mass and volume
- Making a no-bake product

SOFT SKILLS to strengthen hard skills:

- Classification
- Paying attention to detail
- Practical skills application

CHARACTERISTICS OF THE PRODUCT

Appearance	Texture	Taste	
Chocolate brown crunchy fudge squares.	Crunchy texture, it must be set firmly.	Sweet, rich and crunchy.	

ASSESSMENT

Personal hygiene [5]		"Clean as you go"	Prep sheet	Final prod	duct	Questions [5]	TOTAL	
		[4]	[5]	[6]			25	
Hair	2			Appearance	2			
Nails	1			Texture	2			
Apron	2			Taste	2			

A. INTRODUCTION (5 minutes)

B. Study the recipe carefully and complete the mise en place form provided.

Marie Biscuit fudge Yield 12 fudge squares

Ingredients

ml Margarine
kg Icing Sugar
ml Cacao
Egg
ml Coconut

10 ml Vanilla essence

2 ml Salt

1 pkt Marie Biscuits

(Broken into pieces)

Method

- 1. Melt the butter.
- 2. Beat egg and essence together.
- 3. Combine all they dry ingredients
- 4. Add all the liquid ingredients to the dry ingredients.
- 5. Add the broken Marie Biscuits and combine.
- 6. Press mixture into a rectangular dish.
- 7. Leave in Fridge to set.
- 8. Cut into squares and serve



C. Mise en place

Ingredients	Recipe Amount	Mise en place of ingredients	[2]

Mise en place-apparatus [2]	Mise en place of additional equipment not
	found at your work station [1]
	Number of portions: [1]
Technique Applied:	[1]
Description of dish:	[1]
Oven/temperature control on stove:	[1]
Cooking Method:	[1]
	TOTAL = 20

C. ANSWER THE FOLLOWING QUESTIONS

1. List Three different measuring equipment that is used in the kitchen. [3]

2. Define the difference between mass and volume? [2]

TOTAL: 25 MARKS



RESOURCES

VIDEOS:

https://www.youtube.com/watch?v=62MOCMyPce0

MISE EN PLACE-Preparing yourself for successful baking

- 1. www.youtube.com How to Mise en Place | Cooking Light YouTube
- 2. How to write a standardised recipe www.youtube.com

VIDEOS:

How To Measure Wet and Dry Ingredients:

www.youtube.com



SUMMARIES

CONTENT SUMMARY: Kitchen and Restaurant Operations

KEY CONCEPTS

Unit 3.1: Organising the Kitchen

- Using the correct utensils/ equipment in the kitchen is essential for success.
- Each piece of equipment is designed to carry-out a specific job.
- They have their own specific name and use.
- The basic cleaning procedure includes washing, rinsing and sanitising.
- All tools must be dried properly and stored away in their respective places in the kitchen.

Unit 3.2: Kitchen Apparatus and Equipment

- Identify, of basic large equipment and small kitchen apparatus
- Functions/correct use and handling practises
- General cleaning and caring

Unit 3.3: Recipe Introduction

- A recipe is a tool used to prepare a dish correctly.
- A standard format has the ingredients listed according to the sequence of use. The method then follows in steps.
- Mise en place refers to preparation done before cooking and service.
- Mise en place helps with effective kitchen organisation and workflow.

Unit 3.4: Measuring of Ingredients

- The basic metric measurements used in the kitchen is millilitres; litres; grams and kilograms.
- Temperature in the metric system is measured in degrees Celsius.
- Accurate measuring is just as important as the tools for measuring.

- Dry ingredients are usually levelled-off with a straight edge knife.
- Liquid ingredient measures must be done on a flat, level surface.



EXAM PRACTICE QUESTIONS

Exam practice: Kitchen & Restaurant Operations

QUESTIONS

SECTION A: SHORT QUESTIONS

- 1.1 Various options are provided as possible answers to the following questions. Choose the correct answer and write the symbol (A D) next to the question number (1.1.1 1.1.10) on the FOLIO PAPER.
 - 1.1.1 The basic care of utensils and equipment include:
 - A Cleaning and sanitising
 - B Washing in hot water, rinsing and drying
 - C The use of chemical solutions
 - D Using a dishwasher, only (1)
 - 1.1.2 Temperature in the metric system is measured in:
 - A Grams and milligrams
 - B Degrees Celsius
 - C Kilograms and grams
 - D Litres and millilitres (1)
 - 1.1.3 Dry ingredients are levelled-off by using a...
 - A blade
 - B spatula
 - C spoon
 - D fork (1)

(3)

1.2 **MATCH ITEMS**

Choose a description from COLUMN B to match the term in COLUMN A. Write only the symbol (A - J) next to the question number (1.2.1.1 - 1.2.1.5) on the folio paper.

1.2.1	COLUMN A TERM			COLUMN B	
				DESCRIPTION	
	1.2.1.1	Recipe	Α	Pre-preparation done before cooking and serving	
	1.2.1.2	Standard Format	В	Written record of ingredients and steps needed to prepare a dish	
	1.2.1.3	Mise en place	С	Ingredients listed according to the sequence of use followed by the method	
			D	A narrative plan to follow when preparing a meal	
			Е	A list of dishes stating what must be eaten per day	(3)

SECTION B: LONG QUESTIONS

2.1	Indicate the abreviations for the following measurement units:	LO			
۷.۱	2.1.1 millilitres	(5)			
	2.1.2 kilogram				
	2.1.3 gram				
	2.1.4 litre				
	2.1.5 degrees Celcius				
2.2	Explain the folloiwng techniques:	MO			
	2.2.1 Cutting in	(10)			
	2.2.2 Beat	(10)			
	2.2.3 Grate				
	2.2.4 Stir				
	2.2.5 Mix				
2.3	"The Royal Towers Hotel does not have a mise en place procedure in place.	НО			
	Service is usually chaotic, and customers are often left unhappy."				
	Advise the management of the Hotel on the value of this process in their daily	(4)			
	kitchen operations.				