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## YEAR 1

## HOSPITALITY STUDIES

YEAR 1 LG

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| Unit 3.1: Organising <br> the Kitchen <br> $-\quad$ Storeroom | Unit 3.2: Kitchen apparatus and equipment <br> Identify, of equipment and apparatus <br> Functions/correct use and handling practises <br>  <br> $\quad$General cleaning and caring of equipment and apparatus |
| :--- | :--- |



Unit 3.1 Organising the kitchen:

### 3.1.1 Storerooms

FOOD STORAGE AREAS:

## FREEZER

- Under $18^{\circ} \mathrm{C}$
- Tightly wrapped
- Label and date
- Thaw properly



## REFRIGERATOR / COLD ROOM

- Keep perishable food below $7^{\circ} \mathrm{C}$
- 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
1.2 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

|  |  | Refrigerator/Cold room | Freezer |
| :---: | :---: | :---: | :---: |
| 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

## Practical demonstration:

- Washing/sanitising of hands

INFORMAL ACTIVITY
WASHING/SANITISING OF HANDS

| Surname, Name: |  | Year 1 |
| :--- | :--- | :--- |
| MODULE <br> Hygiene, Safety and <br> Security | OBJECTIVES: <br> Learners will be able to: <br> $\bullet$ <br> Wash hands using correct <br> procedures <br> - Know which sanitizers to use | SOFT SKILLS <br> $\bullet$ |

## 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 $\checkmark$ underneath in the table provided, to an area where it will be most effectively used.

Kitchen

|  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |
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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

| Aluminium | Is the best for all-round use. It is the most <br> popular, lightweight, attractive, and less <br> expensive. It requires care to keep it shiny and <br> llean. Much more, it gives even heat <br> distribution no matter what heat temperature <br> you have. It is available in sheet or cast <br> aluminium. Since it is a soft metal, the lighter <br> gauges will dent and scratch easily, making the <br> utensils unusable. |
| :--- | :--- | :--- |
| Stainless |  |
| Steel | Is the most popular material used for apparatus <br> and equipment but is more expensive. It is <br> easier to clean and shine and will not wear out <br> as soon as aluminium. |


| Glass | Is good for baking but no practical on top or <br> surface cooking. Great care is needed to ensure <br> a long shelf life. |
| :--- | :--- |
| Cast Iron | Is sturdy but must be kept seasoned to avoid <br> rust. Salad oil with no salt or shortening can be <br> rub inside and out and dry. Wash with soap (not <br> detergent) before using. |
| Ceramic | Glass and ceramic conduct the heat slowly and <br> evenly. Many of these baking dishes are <br> decorated and can go from stove or oven to the <br> glass <br> dining table. |
| 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. |  |


| Equipment | Name | Use |
| :--- | :--- | :--- |
|  | Measuring spoons | Used for small quantities of wet and dry <br> ingredients |


|  | Used for large amounts of wet <br> ingredients <br> Commonly made up of heat-proof jug <br> glass and transparent so that liquid can <br> be seen. |
| :--- | :--- | :--- |


|  | Chef's knife | Cutting and chopping of fruit, <br> vegetables or even meat. |
| :--- | :--- | :--- |
|  | Bread knife | Cutting bread or pastry, the serrated <br> edge does not blunt easily. |
|  | Sharpening steel | Used to sharpen long knives. <br> fruit. |

SMALL KITCHEN EQUIPMENT AND UTENSILS: PREPARATION EQUIPMENT

| Equipment | Name | Use |
| :--- | :--- | :--- |
|  | Wooden spoons | Stirring and beating. <br> Rubbing ingredients through a sieve. <br> Creaming butter and sugar together. |


|  | Pasta spoon or server | Is used to transfer a little or much cooked <br> pasta to a waiting plate, without mess. |
| :--- | :--- | :--- |


|  | lasta spoons are best used with <br> spaghetti-style or other long pasta <br> noodles: you can use a large, slotted <br> serving spoon for short pastas. |
| :--- | :--- | :--- |


|  | Use to fill jars, made of various sizes of <br> stainless steel, aluminium, or of plastic. |
| :--- | :--- | :--- |
| Garlic press | Is a kitchen tool which is specifically <br> designed for the purpose of pulping garlic <br> for cooking purposes. |
| Graters | Used to grate, shred, slice and separate <br> foods such as carrots, cabbage and <br> cheese. |


|  |  | Pastry brush / baster |
| :--- | :--- | :--- |
|  | Brushing glazes onto food, e.g. tops of <br> breads and baked goods after they come <br> out of the oven, and returning some of <br> the meat or poultry juices from the pan, <br> back to the food. <br> Greasing baking tins. |  |
|  | Flipper / egg lifter | Rolling out biscuits and pastry. <br> food items. |

SMALL KITCHEN EQUIPMENT AND UTENSILS: COOKING \& BAKING EQUIPMENT

| Equipment | Name | Use |
| :--- | :--- | :--- |
|  | Frying pan | Frying of eggs, vegetables, meat etc. |


|  | Used when temperatures must be kept <br> below boiling, such as for egg sauces, <br> puddings, and to keep foods warm <br> without overcooking. |
| :--- | :--- | :--- |

## SERVING UTENSILS

| Equipment | Name | Use |
| :--- | :--- | :--- |
|  | Serving spoons | A utensil consisting of a small, shallow <br> bowl on a handle, used in preparing, <br> serving, or eating food. |
|  | Serving tongs | Enables you to grab and transfer larger <br> food items, poultry or meat portions to a <br> serving platter, to a hot skillet or deep <br> fryer, or to a plate more easily. |

## LARGE EQUIPMENT

| Equipment | Name | Washing dirty dishes and kitchen <br> equipment. |
| :--- | :--- | :--- |


|  | Used to cook foods in deep oil <br> They make foods, e.g. crispy chicken <br> wings, fish, French fries and other foods <br> quickly and easily |
| :--- | :--- | :--- |

## 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 need more care.

## - 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, keeping knives sharp 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.

| M | A | R | W | A | T | C | H | K | C | E | D | P | M | O | C | M | R | N | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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| T | W | W | X | U | V | S | E | G | G | G | N | T | R | K | K | Y | C | A | F |
| V | Y | Z | F | E | F | E | C | C | S | G | R | A | T | E | R | A | T | Q | 0 |
| J | L | L | R | E | M | U | B | G | Y | P | Y | Y | H | S | A | P | O | R | R |
| M | N | Y | N | I | P | G | N | I | L | L | O | R | L | A | R | M | P | V | A |
| C | A | N | O | P | E | N | E | R | L | R | W | O | B | G | N | I | X | I | M |
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| V | G | A | R | L | 1 | C | P | R | E | S | S | A | R | K | T | S | L | H | D |


| F | C | A | D | R | Q | D | J | P | M | U | T | E | E | T | N | I | I | M | L |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| B | O | V | E | N | M | I | T | T | S | O | X | H | L | T | R | I | Q | H | E |
| G | H | P | O | K | I | X | K | U | R | I | R | E | Y | G | S | W | F | J | W |
| C | Q | G | E | B | V | Q | Q | H | M | L | Z | F | T | T | H | T | D | E | P |


| 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: <br> Students will be able to: <br> $\bullet \quad$ Identify small and large kitchen <br> equipment <br> • Demonstrate /explain the use and <br> care of it. | Kitchen and Restaurant <br> Operations | SOFT SKILLS: <br> $\bullet$Decision <br> Making <br> • Attention to <br> detail |

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

| EQUIPMENT | NAME | USE |
| :---: | :---: | :---: |


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## RESOURCES

VIDEOS:
https://www.youtube.com/watch?v=71cvSqZSwi0Kitchen 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 <br> food products such as <br> milk, eggs, baking <br> powder and cheese <br> used to prepare a dish. | The instructions or <br> the method indicates <br> what must be done <br> with each ingredient or <br> groups of ingredients <br> together before it can <br> become a dish. | A dish is the item that <br> can be eaten after all <br> ingredients in the <br> recipe was mixed and <br> cooked. |
| :--- | :--- | :--- |

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

- Recipes list the exact ingredients to use in tne ıogıcaı oraer in wnicn they are preparea.
- 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]

### 3.3.2 MISE EN PLACE IN THE KITCHEN



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]
Prepare the ingredients

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:

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


|  | DESCRIPTION OF TECHNIQUE | ILLUSTRATION |
| :--- | :--- | :--- |
| 6. | Stir: |  |
|  |  |  |



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

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

## OVEN TEMPERATURE

Temperature in the metric system is usually measured in degrees Celsius ( ${ }^{\circ} \mathrm{C}$ ).

| Degrees Celsius | Old School |
| :--- | :--- |
| $100^{\circ} \mathrm{C}$ | Very cool oven |
| $120^{\circ} \mathrm{C}$ | Very cool oven |
| $140^{\circ} \mathrm{C}$ | Cool oven |
| $150^{\circ} \mathrm{C}$ | Cool oven |
| $160^{\circ} \mathrm{C}$ | Very moderate oven |
| $180^{\circ} \mathrm{C}$ | Moderate oven |
| $190^{\circ} \mathrm{C}$ | Moderate oven |
| $2200^{\circ} \mathrm{C}$ | Moderately hot oven |
| $220^{\circ} \mathrm{C}$ | Hot oven |
| $230^{\circ} \mathrm{C}$ | Hot oven |
| $246^{\circ} \mathrm{C}$ | 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.
- Ingredients which weight demand and equipment.

measure by volume and by standardized measuring tools
- 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.

1.2 Answer the following questions regarding the use of measuring spoons:
(4)
1.2.1 $5 \mathrm{ml}=\mathrm{ONE}$ $\qquad$ .
1.2.2 $2.5 \mathrm{ml}=$ $\qquad$ a $\qquad$ .
1.2.3 $15 \mathrm{ml}=\mathrm{ONE}$ $\qquad$ .
1.3 Which spoons will you use to measure the following amounts of ingredients?

EXAMPLE: 7.5 ml Vanilla essence $\boldsymbol{=} \underline{\mathbf{~ m l}+2.5 \mathrm{ml}=7.5 \mathrm{ml}}$

- $1.3 .1 \quad 12.5 \mathrm{ml}$ sugar $=$ $\qquad$ $+$ $\qquad$ $=12.5 \mathrm{ml}$
- 1.3.2 20 ml oil = $\qquad$ $+$ $\qquad$ $=20 \mathrm{ml}$
- 1.3.4 17.5 ml baking powder = $\qquad$ $+$ $\qquad$ $=17 \mathrm{ml}$
- 1.3.5 30 ml cornflour $=$ $\qquad$ $+$ $\qquad$ $=30 \mathrm{ml}$
1.4 Name TWO examples of kitchen equipment that can be used to level the amount of ingredients in a measuring spoon.
$\qquad$
$\qquad$


## 2. Study the set of measuring cups:

2.1 Label each cup with the volume that it measures.

State the amount and the unit.
2.2 Answer the following questions regarding the use of measuring cups:
2.2.1 $250 \mathrm{ml}=\mathrm{ONE}$ $\qquad$ .
2.2.2 $125 \mathrm{ml}=$ $\qquad$ a $\qquad$ .
2.2.3 $500 \mathrm{ml}=$ $\qquad$ cups.
2.3 Which cups will you use to measure the following amounts of ingredients?

EXAMPLE: 185 ml Milk $=125 \mathrm{ml}+60 \mathrm{ml}=185 \mathrm{ml}$
2.3.1 625 ml sugar $=$ $\qquad$ $+\quad+$ $\qquad$ $=625 \mathrm{ml}$
2.3.2 375 ml flour $=$ $\qquad$ $+$ $\qquad$ $=375 \mathrm{ml}$
2.3.3 310 ml rice $=$ $\qquad$ $+$ $\qquad$ $+$ $\qquad$ $=310 \mathrm{ml}$
2.3475 ml salt $=$ $\qquad$ $+$ $\qquad$ $=75 \mathrm{ml}$
2.3.5 70 ml coconut $=$ $\qquad$ $+$ $\qquad$ $=70 \mathrm{ml}$
2.4 Why must measuring cups get rinsed with hot water before syrup is measured?

## 3. METRIC MEASUREMENTS

3.1 Study the following recipe below and answer the questions related to metric measurements.

## CUSTARD COOKIES:

INGREDIENTS

```
1 2 5 \mathrm { g } \text { butter}
3 tbsp Castor sugar
60 ml Custard powder
11/2 cup Cake flour
10 ml BP
1 egg, beaten
1 tsp Vanilla essence
```


## METHOD:

1. Sift the dry ingredients together and add to the margarine mixture.
2. 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.
5. 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:

- Wet ingredients
- Dry ingredients
3.1.2 Is the oven temperature written correctly? Give a reason for your answer.
3.1.3 Give the correct abbreviation for the following terms.
A) Millilitre
B) Gram
C) Grade Celsius
D) Kilogram
3.1.4 How many grams in 2 kilograms?
3.1.5 Explain with a picture how to measure 250 g of butter.
3.1.6 Name which measuring equipment you will use for the following:
A) butter
B) BP
C) vanilla essence


## WASHING AND SANITISING HANDS / MEASURING OF INGREDIENTS

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



1] List the10 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 |  |

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

## MEASURING INGREDIENTS

TECHNIQUE/S: Measuring of dry ingredients

## Recipe:

## SHERBET

3 ml bicarbonate of soda
2 ml citric acid
30 ml icing sugar
5 ml 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 <br> needed | MEASURING EQUIPMENT |
| :--- | :--- | :--- |
| Bicarbonate of soda | 3 ml |  |
| Citric Acid | 2 ml |  |
| Icing Sugar | 30 ml |  |
| Flavoured jelly crystals | 5 ml |  |

1. Washing of hands


2. 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.





## 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 | Margarine |
| 500 | ml | Sugar |
| 125 | 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] |
| :---: | :---: | :---: |
| - |  |  |
| - |  |  |
| - | - |  |
| - |  |  |
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| , |  |  |
| - |  |  |
| - |  |  |
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|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Mise en place-apparatus [2] |  | Mise en place of additional equipment not found at your work station |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  | Number of portions: [1] |
| Technique Applied: |  | [1] |
| Description of dish: |  | [1] |

Oven/temperature control on stove:
C. ANSWER THE FOLLOWING QUESTIONS

1. Differentiate between boiling and sautéing of vegetables.
2. List THREE general rules when boiling food.

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


## 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



## A. INTRODUCTION (5 minutes)

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

## Marie Biscuit fudge <br> Yield 12 fudge squares

## Ingredients

| 125 | ml | Margarine |
| :--- | :--- | :--- |
| 1 | kg | Icing Sugar |
| 20 | ml | Cacao |
| 1 |  | Egg |
| 125 | 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

NAME OF RECIPE: Rolled oats

| Ingredients | Recipe <br> Amount | Mise en place of ingredients [2] |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
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|  |  |  |


C. ANSWER THE FOLLOWING QUESTIONS

1. List Three different measuring equipment that is used in the kitchen.
2. Define the difference between mass and volume?

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
1.1.2 Temperature in the metric system is measured in:

A Grams and milligrams
B Degrees Celsius
C Kilograms and grams
D Litres and millilitres
1.1.3 Dry ingredients are levelled-off by using a...

A blade
B spatula
C spoon
D fork

## 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
\(\left.\left.$$
\begin{array}{|l|l|l|l|}\hline \begin{array}{l}\text { COLUMN A } \\
\text { TERM }\end{array} & & \begin{array}{l}\text { COLUMN B } \\
\text { DESCRIPTION }\end{array} \\
\hline 1.2 .1 .1 & \text { Recipe } & \text { A } & \begin{array}{l}\text { Pre-preparation done before cooking and } \\
\text { serving }\end{array} \\
1.2 .1 .3 & \text { Mise en place } & \text { Ctandard Format } & \text { B } \\
\begin{array}{l}\text { Written record of ingredients and steps } \\
\text { needed to prepare a dish }\end{array} \\
\text { Ingredients listed according to the } \\
\text { sequence of use followed by the method }\end{array}
$$\right\} \begin{array}{l}A narrative plan to follow when preparing a <br>

meal\end{array}\right\}\)| A list of dishes stating what must be eaten |
| :--- |
| per day |

## SECTION B: LONG QUESTIONS

2.1 Indicate the abreviations for the following measurement units:
2.1.1 millilitres
2.1.2 kilogram
2.1.3 gram
2.1.4 litre
2.1.5 degrees Celcius
2.2 Explain the folloiwng techniques:
2.2.1 Cutting in
2.2.2 Beat
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.

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 kitchen operations.

