



SUBJECT: FOOD PREPARATION

LEVEL: 2

MODULE/CHAPTER NO: VEGETABLES & VEGETABLE DISHES

VEGETABLE AND VEGETABLE DISHES

After completing this topic, you will be able to:

- Understand food hygiene principles relevant to vegetable preparation and storage.
- Clean preparation areas and equipment before and after use.
- Identify and categorise various types of vegetables.
- Identify factors indicating quality and freshness.

VEGETABLE AND VEGETABLE DISHES

After completing this topic, you will be able to:

- Identify methods to preserve nutritional value.
- Prepare vegetables in the correct manner for the recipe provided, including garnishes.
- Identify ways to keep waste to a minimum.
- Understand and apply various cooking methods appropriate to the vegetable dishes in question.
- Respond appropriately to unexpected situations.

INTRODUCTION

 Bye vegetables and fruits that are grown locally and in season, as these items will be cheaper and have a better flavour

 vegetables are highly perishable and good hygiene and storage practices will ensure that they remain fresh

CLEANING PREPARATION AREAS AND EQUIPMENT

• How should you clean preparation areas and equipment before use?



HEALTH AND SAFETY PRINCIPLES FOR VEGETABLE PREPARATION AND STORAGE

- Wash fresh produce well.
- Food handlers that have handled unwashed vegetables should also wash their hands to get rid of any bacteria or pesticides that may have been on the vegetables.
- Peel vegetables as thinly as possible. WHY?
- Correct tools/ utensils for the job of cutting.
- Clean as you go.
- Use prepared vegetables asap- some may discolour.

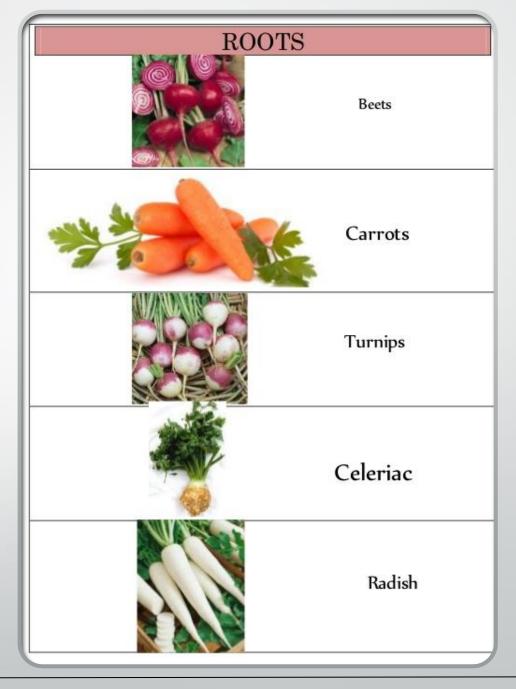




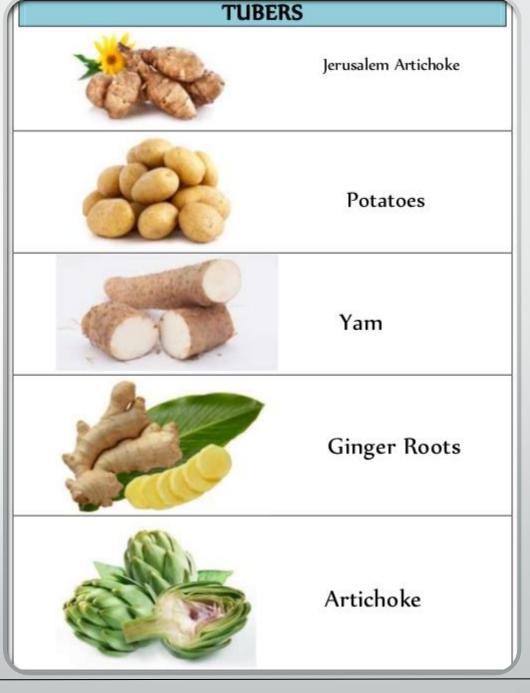
Vegetables are classified according to the edible parts of the plant

Other:

- Sweet potato
- Horseradish
- Parsnip



Vegetables are classified according to the edible parts of the plant



Vegetables are classified according to the edible parts of the plant

Others:

- Kale
- Brussels sprouts
- Endives
- Spinach



Vegetables are classified according to the edible parts of the plant

Others:

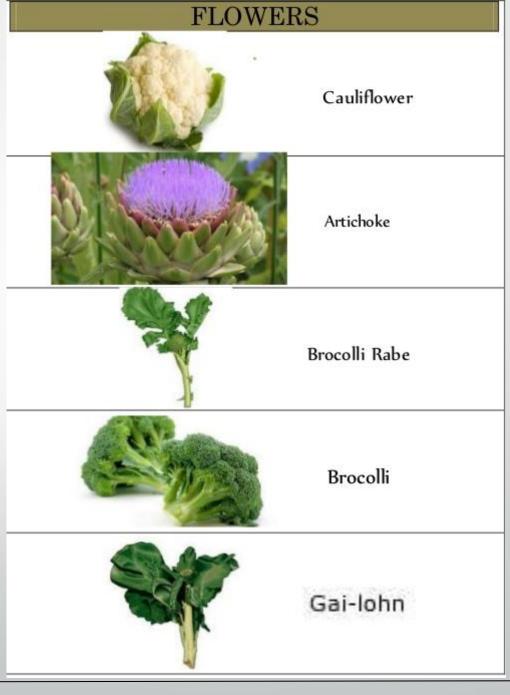
- Rhubarb



Vegetables are classified according to the edible parts of the plant

Others:

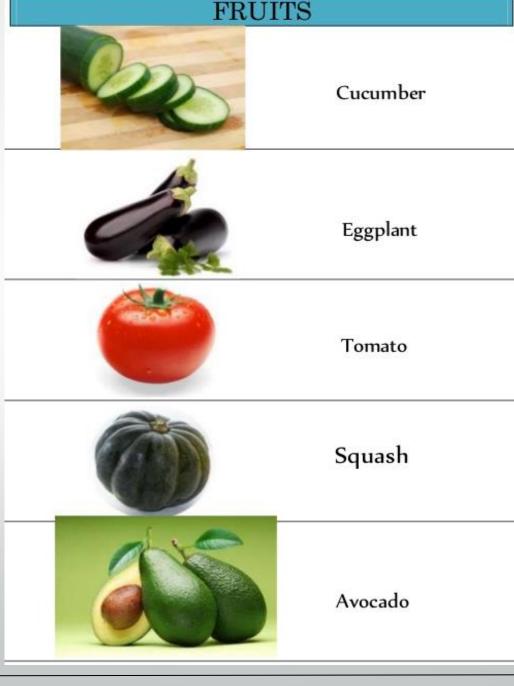
- Waterblommetjies



Vegetables are classified according to the edible parts of the plant

Others:

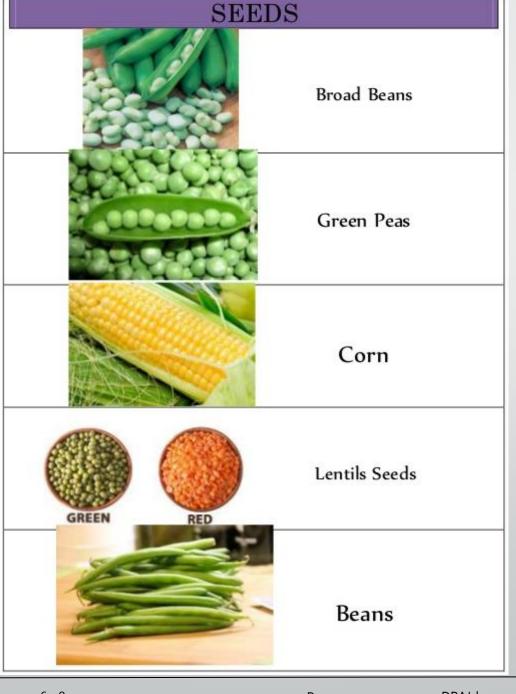
- Peppers (capsicum)
- Pumpkin
- Snap beans
- Courgettes/Baby marrow
- Gem squash
- Okra



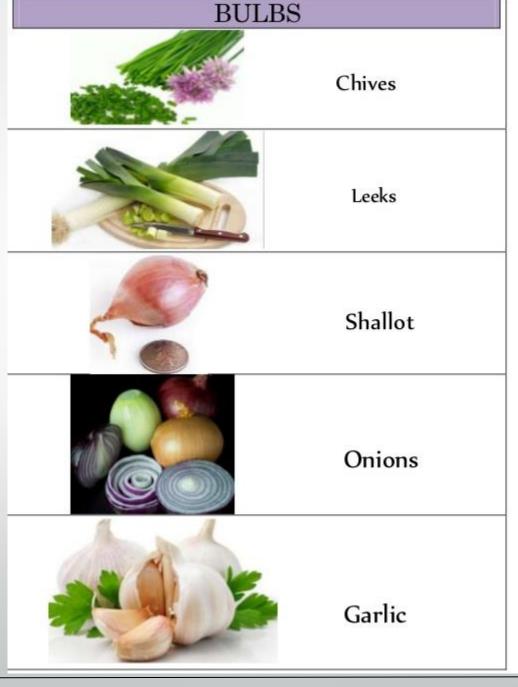
Vegetables are classified according to the edible parts of the plant

Others:

- Sprouted seeds



Vegetables are classified according to the edible parts of the plant



COMPLEMENTARY BENEFITS OF VEGETABLES

All vegetables with a very strong COLOUR contain vitamins.

Vitamin B9, C or Provitamin A

Provitamin A

Provitamin A

COMPLEMENTARY BENEFITS OF VEGETABLES

- Leafy vegetables: rich in vitamin B9, provitamin A & Vit C. Also IRON
- Pod & fruit vegetables: Fiber, Vit B9 and Vit C
- Seed vegetables: higher in calories as they contain carbohydrates. High in fiber, iron and magnesium.
- Root vegetables: fiber & provitamin A
- Flower vegetables: high in fiber, provitamin A & Vit C

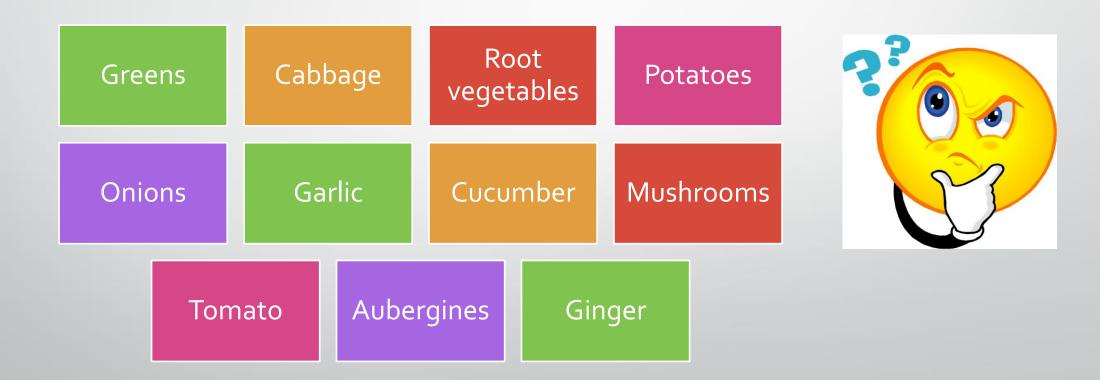
- Buy from a greengrocer.
- See that vegetables are stored properly, not in the sun, and benefit from cool conditions on regular spraying.
- Vegetables are at their best quality if they are bought in season.
- Vegetables are graded according to quality: example potatoes.

- General points on freshness of vegetables:
 - Vegetables should be clean with no visible soil except some soil on the potatoes.
 - Vegetables should be compact and crisp.
 - Stalks should be firm and should snap when they are broken.
 - Vegetables should have good shape, appearance, and colour.
 - No signs of blight or disease, insect or pest damage.
 - No bruising or spayed marks or any other cuts.
 - Should have no strange odours.
 - No blemishes.

• General points on freshness of vegetables:



• How will you recognize the quality of the following vegetables?



METHODS TO PRESERVE NUTRITIONAL VALUE

Students to complete the right column

Vitamin C is lost during storage.	
Vitamins and minerals are soluble in water.	
Oxidation destroys vitamins and changes colours.	
Vegetables become soggy and vitamin C is destroyed in an alkaline medium.	
Some vitamins are destroyed by heat.	

IDENTIFICATION OF METHODS USED TO PRESERVE NUTRITIONAL VALUE

Protect the vitamin content of vegetables in both preparation and cooking

- Use fresh produce as needed to prevent extended storage of vegetables.
- Avoid bruising the vegetables.
- Don't prepare vegetables until you need them
- Use a sharp knife.
- Only peel vegetables when absolutely necessary nutrition.
- Clean skins and peels of vegetables can be used on their own as a snack, or in a stock pot.
- Don't soak vegetables in cold water after you have prepared them.

IDENTIFICATION OF METHODS USED TO PRESERVE NUTRITIONAL VALUE

Protect the vitamin content of vegetables in both preparation and cooking

- Cook for a short period of time as possible.
- Boil in little water as possible.
- Shred green vegetables.
- The addition of bicarbonate of soda will destroy vitamins.
- Can use the water from cooked vegetables for soup, gravy or sauces.

DIFFERENT TYPES OF PREPARED VEGETABLES REQUIRE DIFFERENT STORAGE

How should the following prepared vegetables be refrigerated?

- Raw potatoes and carrots
- Aubergines and avocados
- Celery, beans and pumpkin
- Green leafy vegetables

Washing

Peeling and skinning

Slicing

Chopping

Shredding/ grating

Trimming

Peeling and skinning



Slicing



Chopping



Grating

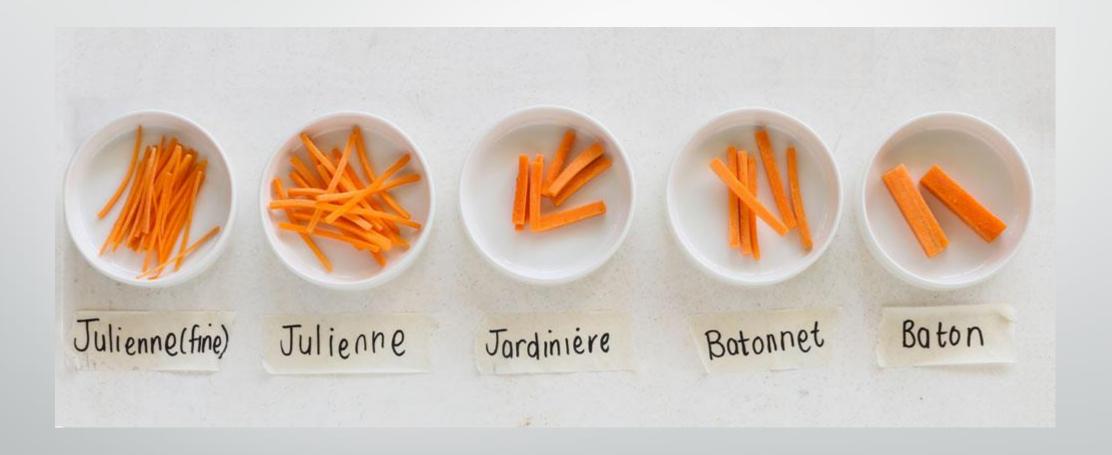


PURPOSE OF CUTTING VEGETABLES IN SPECIFIC FORMS

Vegetables are cut in different ways to:

- Make for fast and even cooking.
- Improve the look of the meal being served.
- Release the flavour of the vegetables.
- Meet the specific recipe needs of a traditional dish.

VEGETABLE CUTS

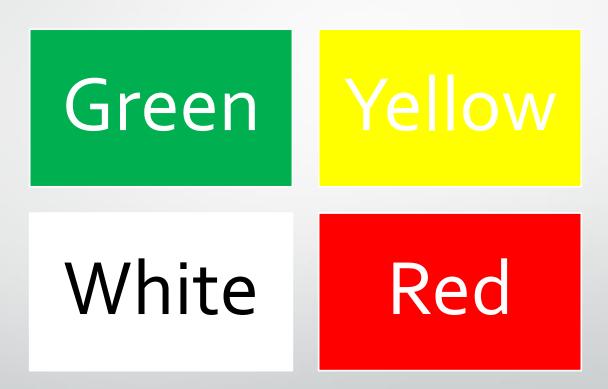


IDENTIFY WAYS TO KEEP WASTE TO A MINIMUM

- Some vegetables do not have to be peeled.
- Use scrapers instead of peeling.
- The softer part of the stem of some vegetables can be eaten.
- Always use a sharp knife.
- Use all vegetable peels/scraps/ pieces in stock.
- Purchase just the necessary amount needed to prevent long storage.
- Peel thinly and cut-up economically to ensure minimum waste.
- knowledge of the recipe and application of the correct cooking method ensures that prepared items are successful.

COLOUR CHANGES

Four colours of vegetables



WHAT DOES COOKING DO TO VEGETABLES?

- Green
 - Green colour comes from- chlorophyll
 - Heat makes chlorophyll fade.
 - Over cooked vegetables turn brownish green.
 - Cook only until tender but still a bright green.

WHAT DOES COOKING DO TO VEGETABLES?

- Yellow
 - Carotene gives yellow and orange colour source of Vit A.
 - Heat destroys carotene.
 - Carotene dissolves in water- therefore water will become pale yellow or orange.

- White
 - Contain flavones pigments are soluble in water.
 - They will turn yellow or dark grey if overcooked- flavones in water.

- Red
 - Red carotenoid pigment
 - Hard-water changes red to purple or purplish green.

- Prevent colour change in vegetables
 - Add a small amount of acid to water e.g. vinegar or lemon juice.

- Texture changes
 - Vegetable become tender, but firm.
 - Mushiness indicates overcooking.
 - Starchy vegetables should be cooked until they are mealy.
 - Overcooking- changes vegetable form and reduces nutritional value.
 - Addition of acid- increases vegetables resistance to softening.

- Flavour development
 - Flavour changes in vegetables from:
 - Contact of vegetable surface with water.
 - The amount of water used.
 - The length of the cooking period.
 - The shorter the cooking time will help retain the flavor of the vegetables.
 - Overcooking leads to the decomposition of sulphur compounds and produces hydrogen sulphide gas e.g. cabbage

COOKING METHODS

 Vegetables can be classified into four categories for suitable cooking methods:

> Mildy flavoured vegetables

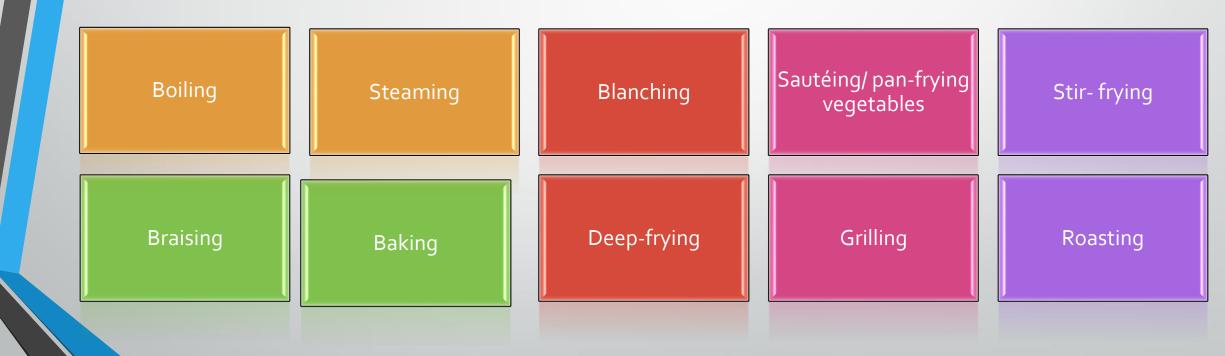
Strongly flavoured vegetables

Starchy vegetables

Dry starch vegetables

COOKING METHODS

COOKING METHODS USED FOR VEGETABLES



SCALLOPING

- Raw vegetables is sliced thinly and placed in layers in a buttered baking dish.
- Each layer is sprinkled with flour, salt, pepper and bits of fat.
- Some liquid can be added.
- Baked in a slow oven until tender and golden.
- E.g potatoes,

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AU GRATIN

- Cheese sauce is added to the vegetables.
- Grated cheese or breadcrumbs can be added on top of the dish.
- Bake in medium-hot oven for 10 to 15 minutes to brown.
- E.g. cauliflower



TIMBALE

 Layered vegetable with milk and eggs, but it has more vegetable pulp than milk.



HANDLING PROCESSED VEGETABLES







Frozen Canned Dried

HANDLING PROCESSED VEGETABLES

Frozen vegetables

- Frozen vegetables have already been processed partly.
- Shorter cooking time.
- Cook from frozen state don't need to thaw e.g mixed vegetables.
- If frozen in one big block e.g. spinach then you can thaw.

UNEXPECTED SITUATION

Insufficient or damaged vegetables

- Stretch vegetables by adding a sauce.
- Investigate reasons.
- Damaged vegetables can be sent back to the supplier and replaced.
- Used damaged vegetables in soup, muffins etc.
- Inform the supervisor.