

## PLANTS AROUND US

## IN THIS CHAPTER

- Types of plants
- Parts of a plant
- Leaves



We see different types of plants around us. Some of them are very big, some are small and some are very small.

Look at the picture given below. A beautiful bird is sitting on the branch of a tree. Which bird is it? Write its name in the box.

parrot



**I**nteresting Fact  
Animals and human beings need plants for food and oxygen.

**Note to the teacher:** Take the students to the school garden and show them various types of plants. Also explain to them the difference between trees, shrubs, herbs, climbers and creepers.



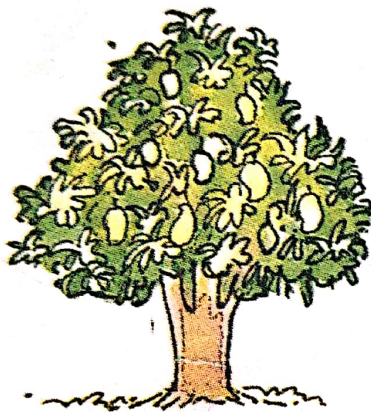
# TYPES OF PLANTS

## Trees

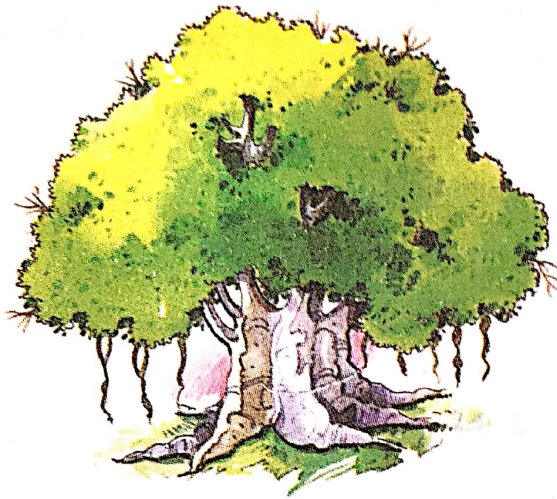
Plants which are big, tall and strong are called trees. They have thick and strong trunks. They usually have branches too.



**Interesting Fact**  
The water found inside a coconut is actually the water absorbed from the soil.



*Mango tree*



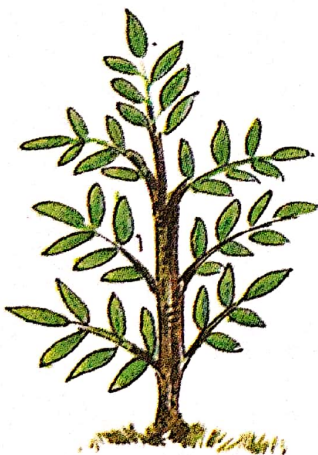
*Banyan tree*



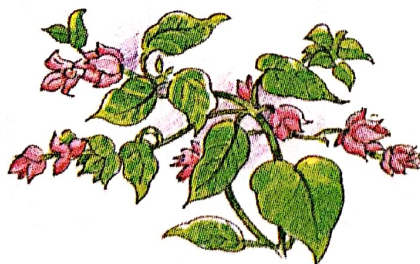
*Coconut tree*

## Shrubs

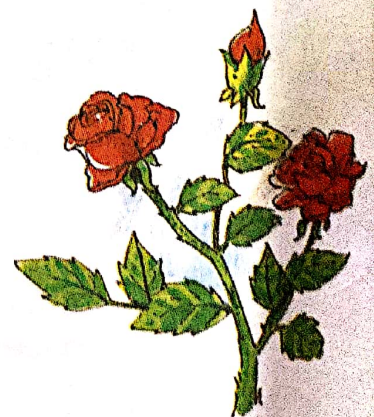
Shrubs are not as big and tall as trees. But they are strong. They have many woody stems.



*Henna*



*Bougainvillea*



*Rose*

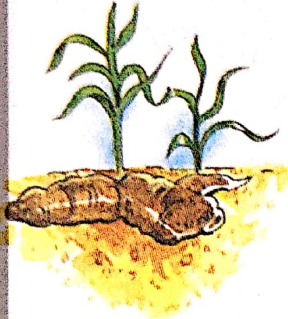


## Herbs

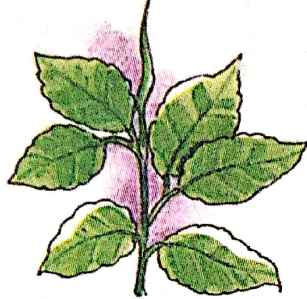
Herbs are very small plants. Their stems and branches are green and weak.



**Interesting Fact**  
Plants grow in water also. The fastest growing plant in the sea is the giant kelp.



Ginger



Mint



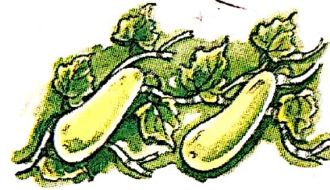
Tulsi



Grass

## Creepers

Creepers are very weak plants. They cannot grow straight on their own. They grow along the ground.



Gourd



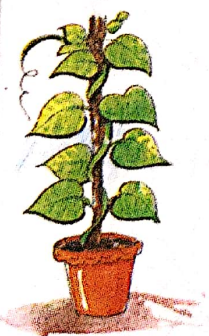
Pumpkin



Watermelon

## Climbers

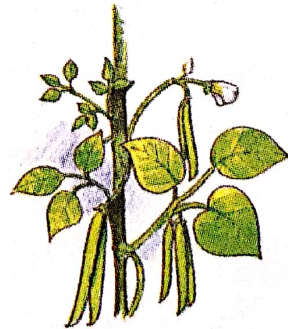
Climbers are also weak plants that cannot grow straight. They need the support of walls, other plants or sticks to grow straight.



Money plant



Sweet pea



Bean plant



Grapevine



## LEAVES

✓ Leaves are an important part of a plant.

Almost all plants have leaves.

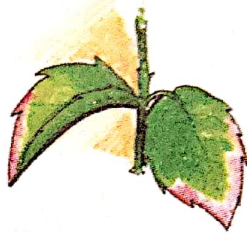
Leaves are generally green in colour.

Their size and shape differ from plant to plant.

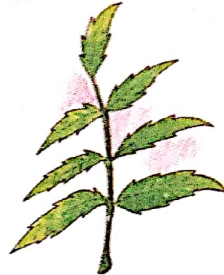
**I**nteresting Fact  
The husk of coconut is made of fibres called coir.



Peepal leaf



Rose leaf



Neem leaf



Coconut leaf



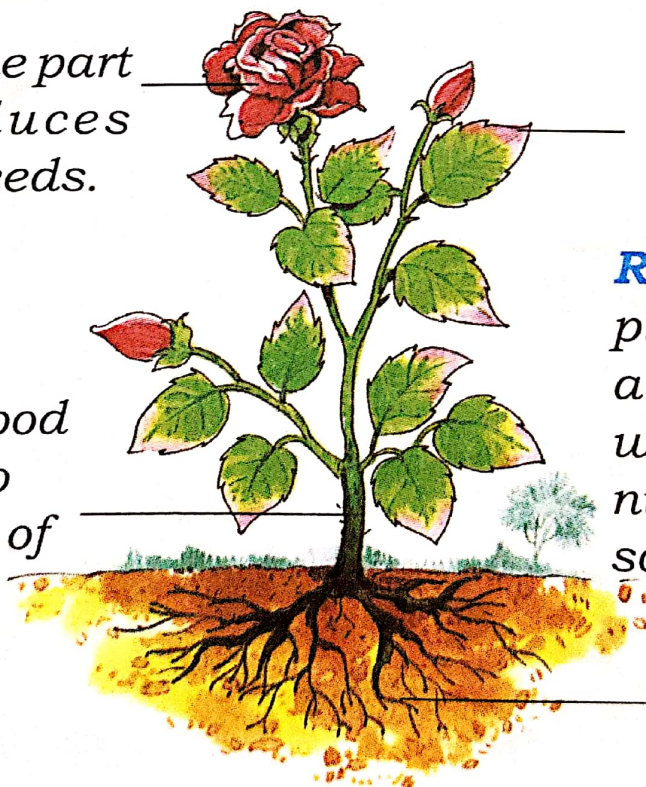
Lotus leaf

## PARTS OF A PLANT

A plant has many parts.

**Flower** is the part that produces fruits and seeds.

**Stem** transports food and water to all the parts of a plant.



**Leaf** is the part that makes food for the plant.

**Root** fixes the plant to the soil. It also absorbs water and nutrients from the soil.





## Key Words

1. *Trunk* : The thick wooden stem of a tree.
2. *Branch* : The part of a tree growing out from the trunk.
3. *Stem* : A long, thin part of a plant.
4. *Transport* : To carry things from one place to another.
5. *Flower* : The part of a plant that produces seeds and fruits.
6. *Nutrient* : A substance needed for life.



## Time To Revise

- We see different kinds of plants around us.
- Tall, big and strong plants are called trees.
- Shrubs are small but strong plants.
- Very small and weak plants are called herbs.
- Creepers are plants that grow along the ground.
- Climbers are plants that need the support of walls, other plants or sticks to grow straight.
- Leaves are generally green in colour.
- Plants have four major parts — flower, leaf, stem and root.

## EXERCISE



## Summative Assessment



I. Answer the following questions:

1. What are trees?

2. Name the four major parts of a plant.

3. What are small and weak plants called?

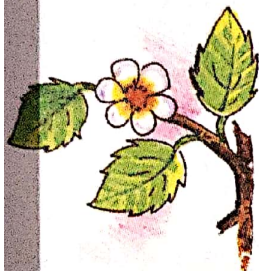


## IN THIS CHAPTER

- Seeds
- Growth of plants



Most plants bear flowers. Flowers are of different colours, smells, shapes and sizes.



Jasmine



Marigold



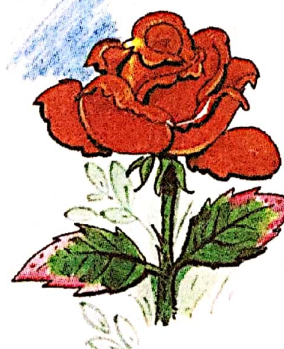
**I**nteresting Fact  
Tulip bulbs can be used in place of onions for cooking.



Lotus



Sunflower



Rose

Some flowers later turn into fruits. Fruits are good for our health.



Apple flower



Apple fruit

*Fruits growing from flowers*

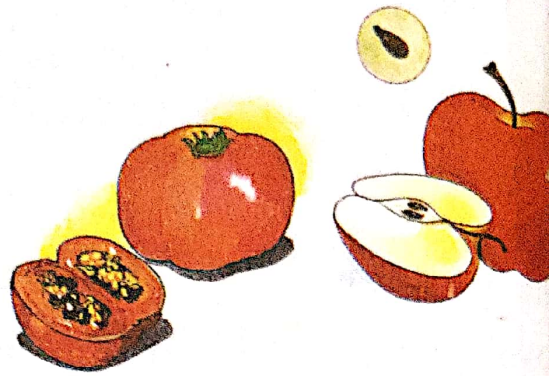
**Note to the teacher:** Take the students to a park. Show them various flowers growing there. Help them identify the flowers along with their names. Also tell the children how a seed grows into a plant.



## SEEDS

Cut an apple with a knife. What do you see? You will find that it has tiny brown or black things inside it. These things are called seeds.

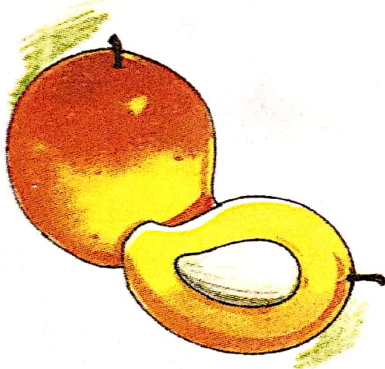
New plants grow from these seeds.



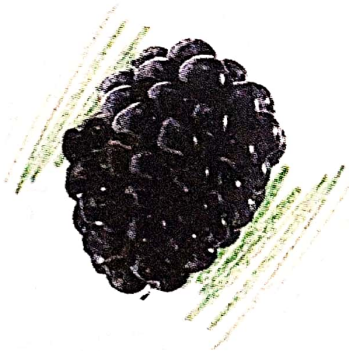
Seeds of tomato and apple

**I**nteresting Fact  
The leaves of the coconut tree are used to make brooms. Coir is obtained from coconut. Ropes and mats are made from it.

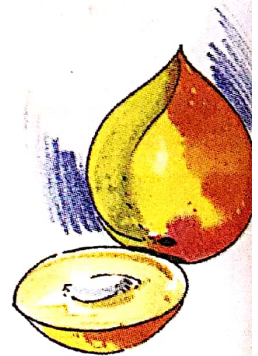
Some fruits like mango, peach and blackberry have only one seed inside them.



Mango

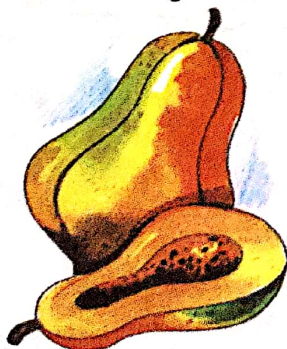


Blackberries

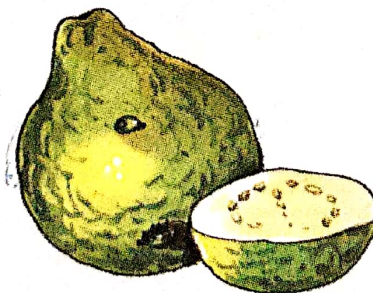


Peach

Fruits like pomegranate, orange, guava and papaya have many seeds inside them.



Papaya



Guava



Orange



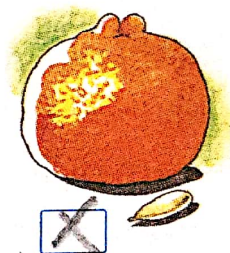
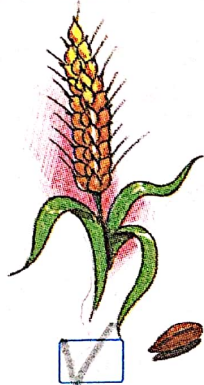
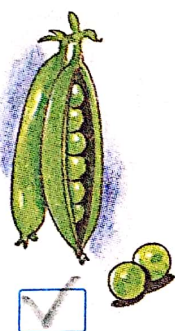
There are two kinds of seeds, edible and non-edible. Pea, gram and maize are examples of edible seeds, while orange, peach, apple, etc. have non-edible seeds.

#### Interesting Fact



Onions fight infections, soothe burns and give relief in bee stings.

Look at the pictures of some seeds given below. Tick (✓) those which we eat.



## GROWTH OF PLANTS

Most plants grow from seeds.

The following steps show how a plant grows from a seed.



*Growth of a plant*

A seed has a baby plant inside it. It grows into a new plant when it gets the following three things:

1. Water
2. Sunlight
3. Air

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## Key Words

1. **Fruit** : The part of a plant holding seeds which is also eaten.
2. **Seeds** : Things inside fruits from which new plants grow.
3. **Grow** : To increase in size.
4. **Baby plant** : A very small plant, a sapling.
5. **Sunlight** : The light that comes from the sun.



## Time To Revise

- Most plants bear flowers.
- Flowers later turn into fruits.
- Fruits have seeds inside them.
- Some plants have one seed.
- Some plants have many seeds.
- Most plants grow from seeds.
- A seed needs air, water and sunlight for growth.

## EXERCISE



## Summative Assessment



I. Answer the following questions:

1. What do flowers turn into?  
\_\_\_\_\_
2. Name the things necessary for seeds to grow.  
\_\_\_\_\_
3. Name some seeds which are edible.  
\_\_\_\_\_
4. Where do new plants grow from?  
\_\_\_\_\_

III. Give a one word answer for each of the following questions.  
Use the words in the box as clues:



# FOOD FROM PLANTS

3

## IN THIS CHAPTER

- Fruits
- Vegetables
- Food grains
- Pulses
- Other plant products

What do we eat as food?

We eat vegetables, cereals, pulses and fruits.

We get all these things from plants.

## FRUITS

Some plants give us fruits.

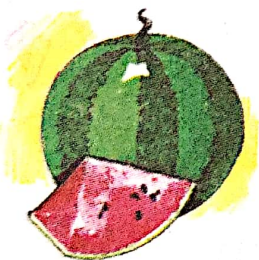
Fruits are very good for our health.

Most fruits are soft and fleshy.

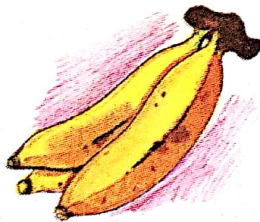
### Interesting Fact



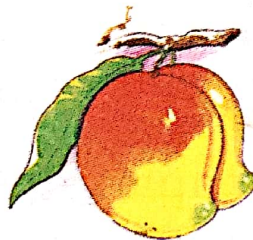
Carrots which are orange in colour are very good for eyesight. They keep our skin and hair healthy.



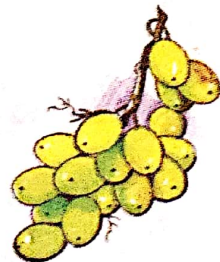
Watermelon



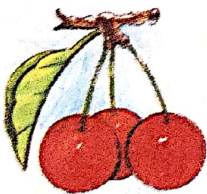
Banana



Mango



Grapes



Cherry



Pineapple



Pear



Papaya

### Do it yourself

Write the favourite food of the following animals:

1. Monkey : \_\_\_\_\_
2. Squirrel : \_\_\_\_\_
3. Cow : \_\_\_\_\_
4. Elephant : \_\_\_\_\_

**Note to the teacher:** Discuss the various parts of a plant and explain to the students that certain parts of plants are edible. Give suitable examples.



## VEGETABLES

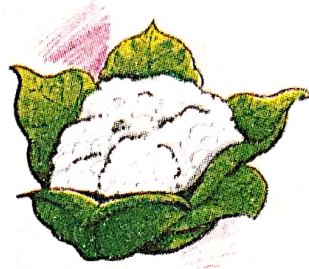
Vegetables are an essential part of our food. We eat the roots, stems, leaves and flowers of plants as vegetables.



*Cabbage*



*Potato*



*Cauliflower*



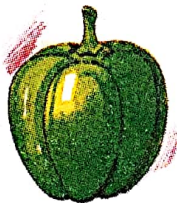
*Brinjal*



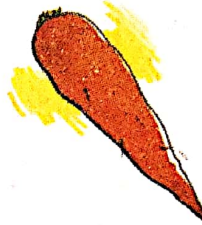
*Pea*



*Tomato*



*Capsicum*



*Carrot*



*Radish*

## FOOD GRAINS

We also take chapati and rice as food.

Chapati is made from the flour of wheat and maize.



*Rice*



*Wheat*



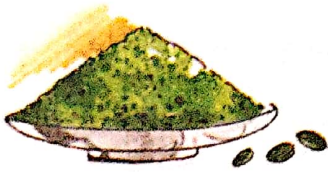
*Corn (Maize)*

Rice, wheat and maize are called food grains. Food grains are also called cereals.



## PULSES

Plants give us pulses like dals, peas, beans and grams.



Moong dal



Chana dal



Peas



Rajma



Arhar dal



**I**nteresting Fact  
Green beans and green peas are not considered as pulses but vegetables.

## OTHER PLANT PRODUCTS

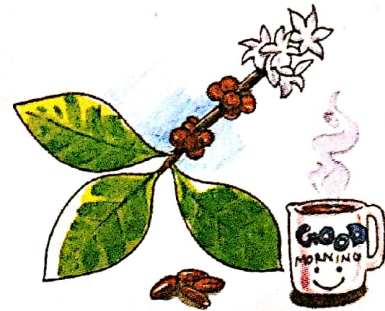
In the morning, we drink either tea or coffee. Sometimes sugar is added to both these drinks. We get all these things from plants. Tea leaves and coffee beans are used for beverages, while sugar is obtained from sugarcane juice.



Tea



Sugar



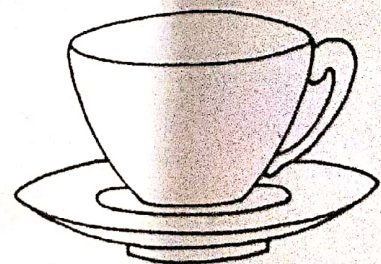
Coffee

What is the colour of coffee beans?

**I**nteresting Fact

Brazil is the largest producer of coffee in the world.

Colour the cup and saucer in the colour of coffee beans.







## Key Words

1. *Fleshy* : That which has a lot of flesh.
2. *Vegetable* : A plant or any part of a plant used as food.
3. *Essential* : Necessary.
4. *Cereals* : Grains which are used as food.
5. *Coffee* : A dark brown powder with a strong flavour, or the drink made from it.
6. *Pulses* : Seeds of certain plants that can be eaten.



## Time To Revise

- We get food from different parts of plants.
- Plants give us fruits, vegetables, cereals and pulses.
- Most fruits are soft and fleshy.
- Vegetables are an essential part of our food.
- Chapati is made from the flour of wheat and maize.
- Food grains are also called cereals.
- We also get tea, coffee and sugar from plants.

## EXERCISE



## Summative Assessment



I. Answer the questions:

1. What food do we get from plants?  
\_\_\_\_\_
2. Are most fruits soft and fleshy?  
\_\_\_\_\_
3. What is chapati made of?  
\_\_\_\_\_
4. From which plant is sugar obtained?  
\_\_\_\_\_