

A plant is divided into two main parts: the **shoot** and the **root**. The shoot grows above the ground. The root grows below the ground.

All the other parts of the plant grow from these two main parts. Look at the different parts of the rose plant.

The shoot grows above the ground.
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↓
Roots grow below the ground.

Branch: Branches grow out from the stem. Leaves, flowers and fruit grow on branches.

Leaf: Green leaves make food for the plant.

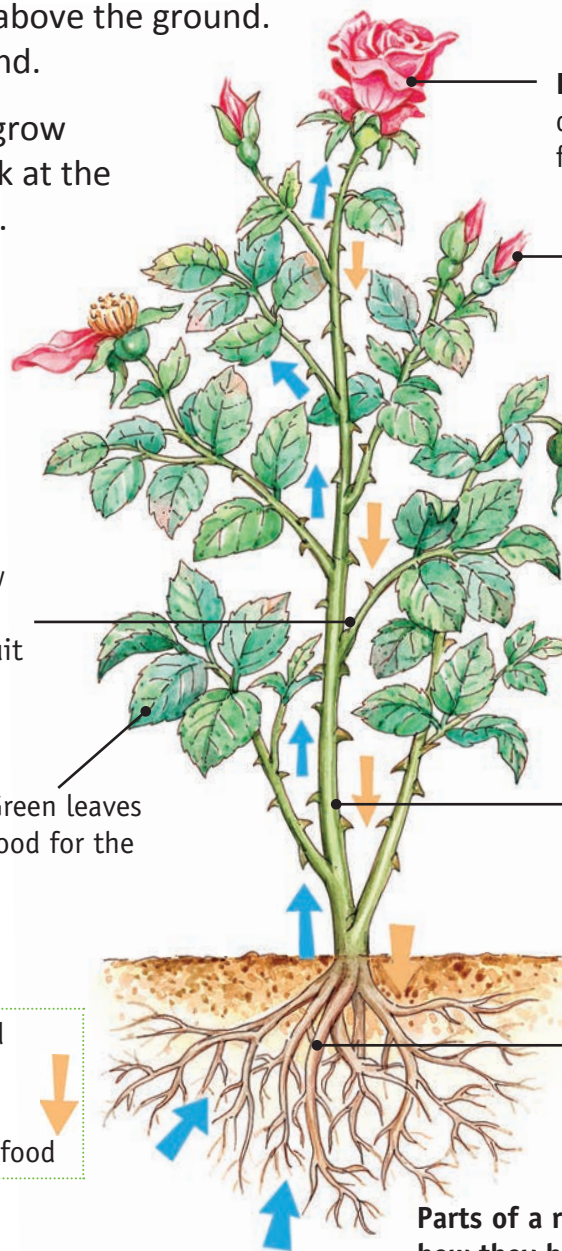
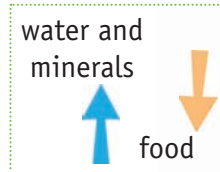
Flower: The flower dries up to become fruit.

Bud: Buds grow into flowers.

Fruit: Fruits have seeds in them. A seed can grow into a new plant.

Stem: The stem holds up the plant. It also helps water, minerals and food to travel to different parts of the plant.

Roots: Roots hold the plant in place. They also take in water and minerals from the soil.



Parts of a rose plant and how they help the plant

Helping to make and transport food

Plants do not move around to look for food. They make their own food.

Food is made by the plant in its green leaves. Prepared food is taken from the leaves to the rest of the plant. Some of

this food is used up by the plant. Extra food is stored.

Different parts of the plant help to make food. They also help to distribute and store it. Let us see how each part helps in doing these things.





There are many kinds of birds in the world. Some are big, some small. Some have colourful feathers, others are quite dull. But all birds have a beak, wings and feathers. Most birds can fly. Some birds can swim, too. Let us learn about different kinds of birds, their body parts, what they eat, and how they live.

Feathers

Birds are the only animals that have feathers. There are three kinds of feathers.

- 1. Down feathers:** These are soft feathers. They help to keep the bird warm.
- 2. Body feathers:** These feathers help to give the bird's body its shape.
- 3. Flight feathers:** These are big feathers. They are found on the wings and tail. They help the bird fly.



Down feathers



Body feathers



Flight feathers

How birds fly

A bird's body is well-suited for flying. Let us see how.

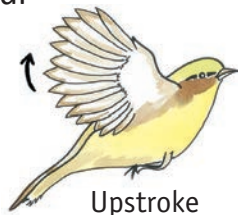
- 1. Shape:** A bird's body is shaped like a boat. This helps it to cut through the air easily.
- 2. Bones:** Its bones are light and hollow. This makes its body very light, which is good for flying.
- 3. Wings:** A bird has wings instead of arms. Wings are joined to the bird's body with very strong muscles. The muscles help the wings to move up and down. These two movements are called the upstroke and the downstroke. It is quite like how we move our arms when we swim.



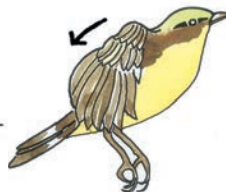
Upstroke



Downstroke



Upstroke



Downstroke

- 4. Tail:** A bird's tail helps it to change direction while flying.

Teacher's note: 1. Ask the children to collect different feathers. See if they can identify the bird from which they come or the kind of feather it is. You could have a class display of all the feathers collected. Ask them to observe one feather closely and make a coloured drawing of it. 2. The children know that the human body has muscles and bones (book 2). You could tell them that birds and other animals also have muscles and bones.



CLASS DISCUSSION

1. Why should we not cover our face while sleeping?
2. What should we do to keep the digestive system in order?
3. How can we keep the body fit?



PROJECTS

Find out why people wear spectacles. Some people wear them only while reading or writing, while others wear them all the time. What is the difference between the two types of spectacles?



DID YOU KNOW?



Keep a straight back: Thousands of nerves branch out from your spinal cord. They help to keep all parts of your body working properly. Keeping your back straight helps these nerves work properly.

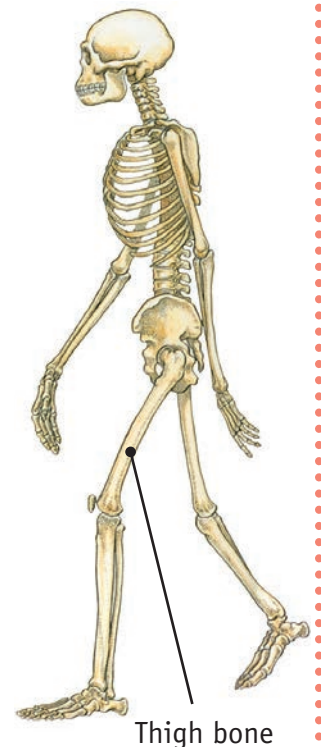
Exercise is good:

Exercise helps to develop muscles. It also makes us breathe deeply. When we breathe deeply, more oxygen is taken into the body. This is good for health.

Fresh air: Morning air is clean and fresh. So people often do deep breathing exercises every morning near an open window or in a park. It helps them feel energetic throughout the day.

Longest and

shortest: The longest bone in the body is the thigh bone. The smallest bones are in the ears.





APPLY YOUR KNOWLEDGE



When the Clouds Play Catch

Little Cloud was all alone in the sky.
He asked Sun to play Catch with him.

“I am sorry!” said Sun. “I cannot play Catch with you.”

Little Cloud was very disappointed. So Sun decided to help him. He made many other playmates for Little Cloud. They all looked just like Little Cloud.

Little Cloud and his friends chased one another. As each cloud caught another, it swelled up and became bigger and bigger. Soon all the clouds were big and fat. They had also become dark and heavy. They were finding it difficult to chase each other.

“Look at you!” they pointed to each other. They clapped and laughed. They laughed so much that tears rolled down from their eyes.

Down below, Mother Earth heard the thunder and felt the rain. She was happy.

Sun was also happy. He said, “This is just as it should be. And it will happen again and again. I am sure of it.”

Think and answer:

1. How did Sun get playmates for Little Cloud?
2. Why was Mother Earth happy?
3. What did Sun mean when he said “And it will happen again.” ?
4. Why could the Sun not play Catch?

