

→ Read the chapter three times and find the toughest words.

1 Things around Us



We see many things around us. Some move on their own, while others need something to move them. For example, a cockroach and a tiger move on their own, but a table and a chair move only when you push or pull them. So, we can divide things around us into two groups—living and non-living things. Plants, animals and human beings are **living things**. Chair, table, rock, sand, hills, etc. are **non-living things**.



Bingo's Activity Time

Think and make a list of five living things and five non-living things you see on your way from school to home.

Living and Non-Living Things

There are many differences between living and non-living things. Living things can do many things that non-living things cannot.

Living things need food

Living things need food to grow. Food provides energy to them. Some animals like goats, rabbits and cows eat plants. Tigers, lions, jackals and some other animals eat animal flesh. Human beings and animals like bears and squirrels eat both plants and animals.



While animals depend directly or indirectly on plants for food, plants prepare their own food.

Non-living things like rock, chair, etc. neither prepare food nor do they need it to live.

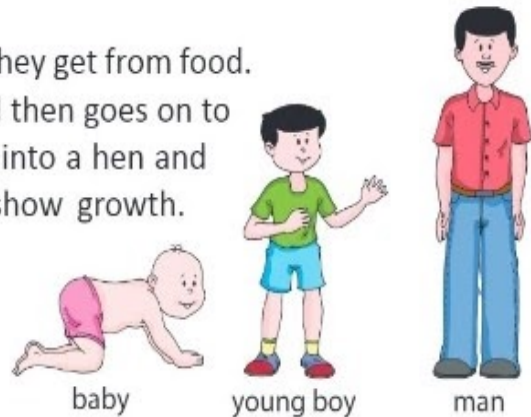


Living things grow

All living things grow using the energy they get from food.

A baby grows into a young boy/girl and then goes on to become a man/woman. A chick grows into a hen and a cub grows into a lion. Plants also show growth.

A seed grows into a sapling which grows into a plant and then into a tree. A bud grows into a flower which grows into a fruit.



Growth in Human Beings

Non-living things like plastic bottle, pencil, stone, etc. do not grow.



seed



sapling



plant



tree

Growth in Plants

Living things breathe

All living things breathe. A fish breathes through special structures called **gills**. Human beings breathe through **lungs**. Frogs breathe through both skin and lungs. Insects breathe through tiny holes in their body. Plants breathe through **stomata**.

Non-living things do not breathe.

Stomata

Stomata are small openings present mostly on the lower surface of a leaf. They help plants to breathe.



stomata

Gills

Gills are special structures found in many aquatic organisms that help them to breathe.



gills



Bingo's Challenge!

- Name three animals and three birds that breathe through lungs.
- Can you name any one non-living thing that breathes?

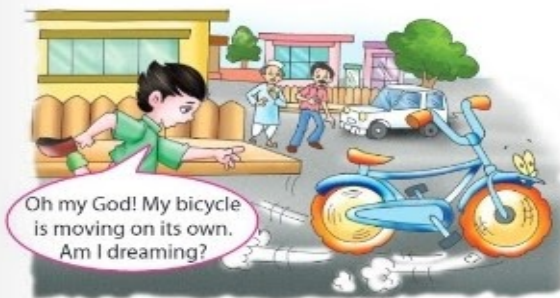


Living things move

All living things show movement. Animals and human beings move from one place to another while plants show movement in some of their parts only. For example, dog, cat, elephant and human beings move here and there in search of food, shelter and water. Plants like 'touch-me-not' show movement upon touching and sunflower turns towards the sun.



movement in touch-me-not



Non-living things like car, bicycle and chair can also move but not on their own. They need to be pushed or pulled by a human being, an animal or an engine to move. Therefore, movement is a feature of living things only.



Bingo's Activity Time

Take a well-watered potted plant. Keep it inside a dark room for a few days. Observe it carefully. You will find a change in the colour of its leaves. They will become pale and lifeless.

Now keep the same plant outside in the sun for a few days. What do you observe? Do the leaves become green again? Does the plant start looking healthy once again?



Living things feel

You have seen in the above activity that a plant wilts when kept inside without getting sunlight. This shows that plants feel changes in the surroundings. Many plants shed their

Wilt
Droop, to become limp