



# 10 Things Around Us

LESSON



## Learning Outcomes

After completing this chapter, students will be able to:

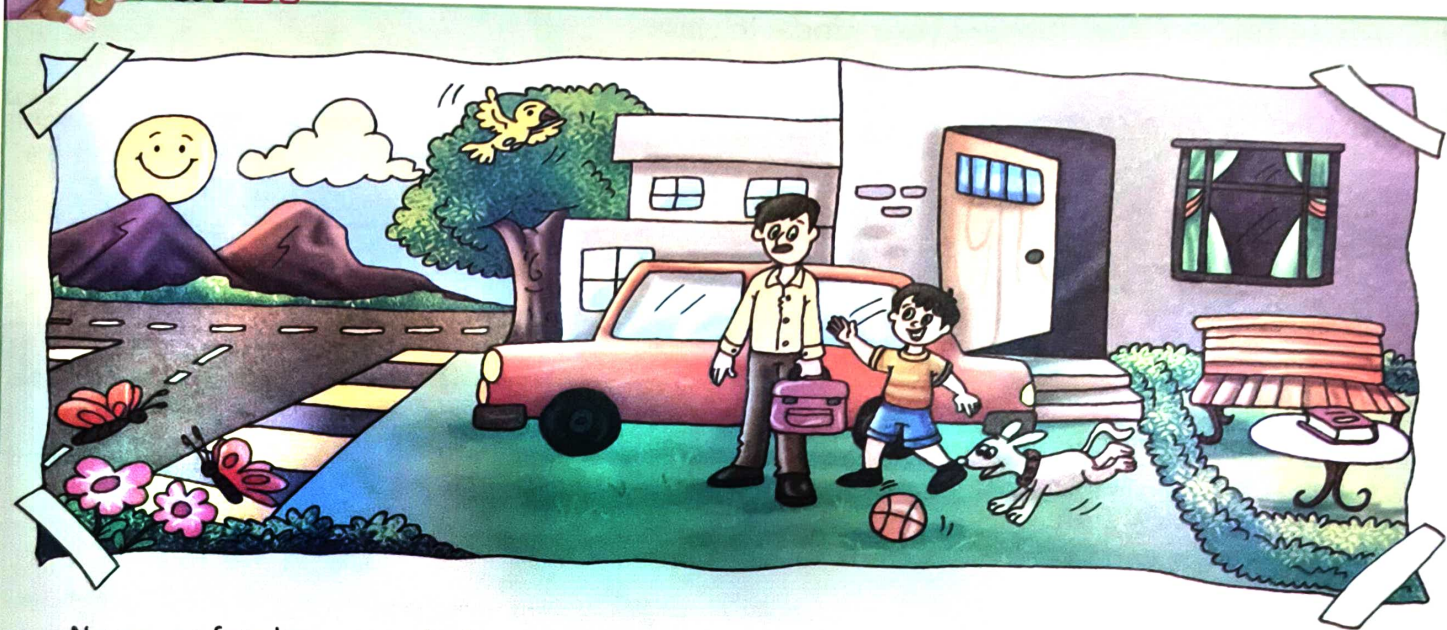
- ◆ identify natural and human-made things
- ◆ define and differentiate between living and non-living things
- ◆ list the characteristics of living things
- ◆ differentiate between plants and animals

## Inside the Chapter

- ★ Natural and Human-made things
- ★ Living and Non-living things
- ★ Characteristics of Living things
- ★ Differences between Living and Non-living things



## Let's Do



• Name any four human made things shown in the above picture.

1. Car                      2. Table                      3. House                      4. Road

• Name any four natural things shown in the above picture.

1. Sun                      2. Mountain                      3. Trees                      4. Cloud



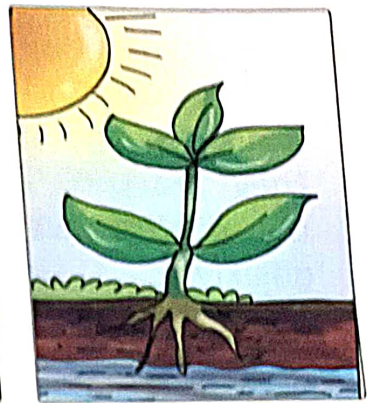
We need food to live.



A squirrel eats grains.



A lion eats flesh of other animals.



Plants make their own food.

Living things need food and water.

Does your doll or pencil need food to eat or water to drink? No.

Non-living things do not need food and water.

### Multiple Choice Questions

(Understanding)

Tick (✓) the correct answers:

1. Pencil is a non-living thing.

(a) Pencil



(b) Rose plant



(c) Rabbit



2. Which one of the following things does not need water to live?

(a)



(b)

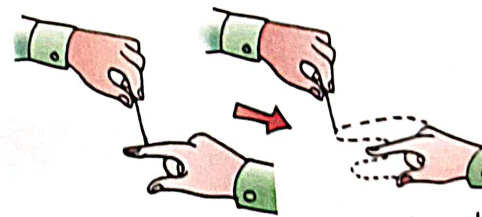


(c)



3. **Living Things Feel and React:** When we accidentally prick our hand with a small pin, we feel the pain and quickly move our hand away.

When we touch an ice cube, our fingers feel cold. When we hear music, our feet start tapping the floor. Our pet dog moves its tail on seeing any family member while it barks at a stranger.



We quickly move our hand away when pricked with a pin.

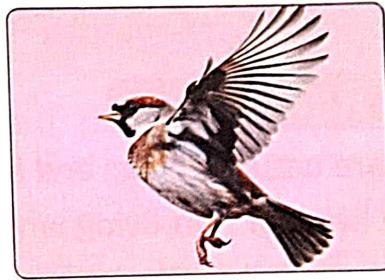
## Multiple Choice Questions

(Remembering, Understanding)

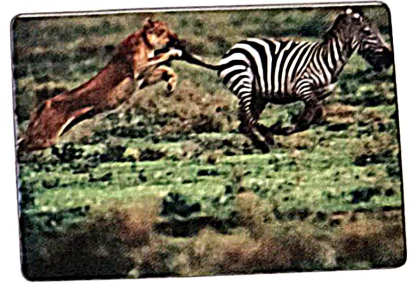
Tick (✓) the correct answers:

1. Plants do not have sense organs.  
(a) Humans  (b) Plants  (c) Animals
2. Which one of the following examples shows the feature of a living thing?  
(a) Fires spread in the jungle.   
(b) A fish breathes through gills.   
(c) An aeroplane flies high in the sky.

**5. Living Things Move:** Living things move. Animals move from place to place in search of food and shelter or to run away from their enemies. Different animals move in different ways. Humans, lions and cows walk with **legs**. Insects and birds fly with **wings**. Fishes swim with **fins** and **tail**.



A bird flies with wings.



Animals run with legs.

Living things move.

Plants do not move from one place to another. They are fixed to the ground. Some plants show a little movement. The touch-me-not plant closes its leaves when we touch it. The sunflower always turns towards the sun. Lotus flower opens in the morning and closes at night.

**So, living things move on their own.**

Does your doll move on its own? No. **Non-living things do not move on their own.**

**6. Living Things Reproduce:** All living things give birth to young ones of their own kind. This process is called **reproduction**. Insects, birds and some other animals like snakes, crocodiles and frogs lay eggs from which babies come out.

Animals like dogs and cats give birth to young ones. Dogs have puppies, cats have kittens and human beings have babies. Plants produce seeds. New plants grow from seeds or from other parts of the plants like stems, roots or leaves. So, **living things reproduce.**



A sunflower turns towards the sun.



A cat gives birth to kittens.



Human beings have babies.



Plants grow from seeds.

Does your doll or toy reproduce? **No. Non-living things do not reproduce.**



### Points to Remember

- ▶ The things around us are natural things and human-made things.
- ▶ Natural things may be living or non-living while human-made things are non-living.
- ▶ Living things grow, feel, react, breathe, move, reproduce and also need food and water.
- ▶ Both plants and animals are living but they differ in many ways.

*Competency Based Discussion:* Formation and Importance of Soil

## Exercise

[According to NEP Guidelines]

### SECTION - A

#### A Oral Questions:

(Remembering, Understanding)

1. How do animals get their food?
2. How do plants breathe?
3. What happens when we touch an ice cube?

#### B Science Riddles:

(Problem Solving)

1. I have branches, leaves, and a trunk. I provide shade and shelter for many creatures. What am I? *Tree*
2. I have wheels, an engine, and can take you to places. I am made by humans and help them travel. What am I? *Car*
3. I have wings and feathers. I can fly high in the sky. What am I? *Bird*

**C Multiple Choice Questions:**

(Remembering, Understanding)

Tick (✓) the correct options:

- Cockroaches and grasshoppers breathe through  
(a) pores  (b) air holes  (c) gills
- Which one of the following is not a characteristic of living things?  
(a) they breathe  (b) they grow  (c) they never die
- Which one of the following things does not show growth?  
(a) a tadpole   
(b) a flower in a vase   
(c) a small plant
- Clouds move in the sky. They are  
(a) living things   
(b) man-made things   
(c) non-living things
- Which one of the following actions is not performed by a frog?  
(a) making its own food   
(b) moving from one place to another   
(c) drinking water

**D Case/Source/based Question:**

Read the situation given below and choose the correct answer: (Analysing)

Ravi has a toy puppy that runs on battery. It even jumps and makes a barking sound.

The puppy is still a non-living thing because

- it moves on its own
- it does not show growth
- it breathes
- jumps
- makes barking sound
- runs on battery

(You may choose more than one option).

**E Fill in the blanks with the help of the given words:**

(Remembering)

- Birds have wings to fly. (wings/legs)
- A sunflower always turns towards the Sun. (moon/sun)
- A chick finally grows into a hen. (cat/hen)
- We breathe through our lungs. (lungs/gills)

Section - B

1. What do the following grow into  
 (a) a kitten? (b) a baby boy?

1.

(a) A kitten grows into a cat

(b) A baby boy grows into an adult man.

2. Name any two animals that give birth to young ones.

Two animals that give birth to young ones are dogs and cats.

Short Answers

3. Name the tiny holes on the leaves through which plants breathe.

1.

The tiny holes on the leaves through which plants breathe are called stomata.

2. How do humans and most animals feel the changes around them?

Humans and most animals feel the changes around them through their senses. They use their eye to see, ears to hear, nose to smell, tongue to taste, and skin to touch.

3. Why do animals move from place to place?

Animals move from place to place to find food, water, shelter and escape from danger.

They move to meet their needs.

4. Why do we say even though plants do not move from one place to another, but they are living things?

We say plants are living things because they grow, reproduce, and respond to their environment. While they may not move from one place to another, but they show other

characteristic of living things, such as taking in nutrients, growing, and produce seeds.

C.  
1. Write three features that make living things different from non-living things

- (a) Growth:- Living things can grow and become bigger over time.
- (b) Reproduction:- Living things can make more of their own kind.
- (c) Response to Environment:- Living things can respond to change in their surroundings.

2. How are plants different from animals? write three differences.

- (a) Movement:- Plants generally do not move from place to place.
- (b) Food source:- Plants make their own food through photosynthesis, while animals need to eat other things for food.
- (c) structure:- Plants have roots, stems, and leaves, while animals have bodies with different parts like head, legs and tail.

3. Why are plants considered to be living things?

- (a) Plants are considered living things because they exhibit features of living organisms, such as growth, reproduction and response to the environment.

Name one plant that reacts to the changes around it!

- (b) Mimosa pudica (Touch-me-not) is a plant that reacts to touch by folding its leaves.

Priya observes that fish in her aquarium. She notices bubbles coming out of its mouth. Why does this

4. The bubbles coming out from the fish's mouth <sup>escape</sup> could be the result of the fish breathing. Fish take in oxygen from the water through their gills and release carbon dioxide. The bubbles may be the visible signs of this process where the fish is exchanging gases with the water -
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