

UNIT

3

LIVING THINGS AND NON-LIVING THINGS

Look! The robot is moving.

What is the difference between robots and us?



Living or Non-Living

Which are living things?
Which are non-living things?

bird

PLEASE
KEEP CLEAN

tree

hut

lotus

duck

flowers

frog

rock

3.1.1

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Humans, trees and birds are examples of living things.
Toys, cars and rocks are examples of non-living things.



aeroplane

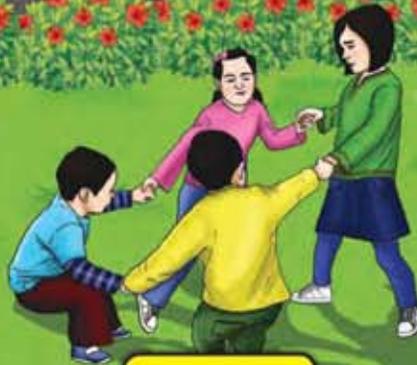
Name other
living things and
non-living things.



toy



car



humans



cat



waste bin

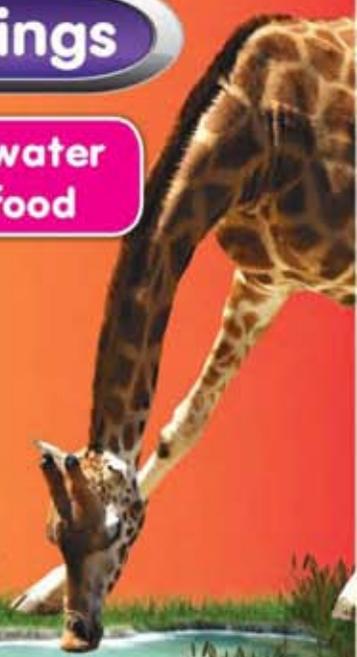


bench

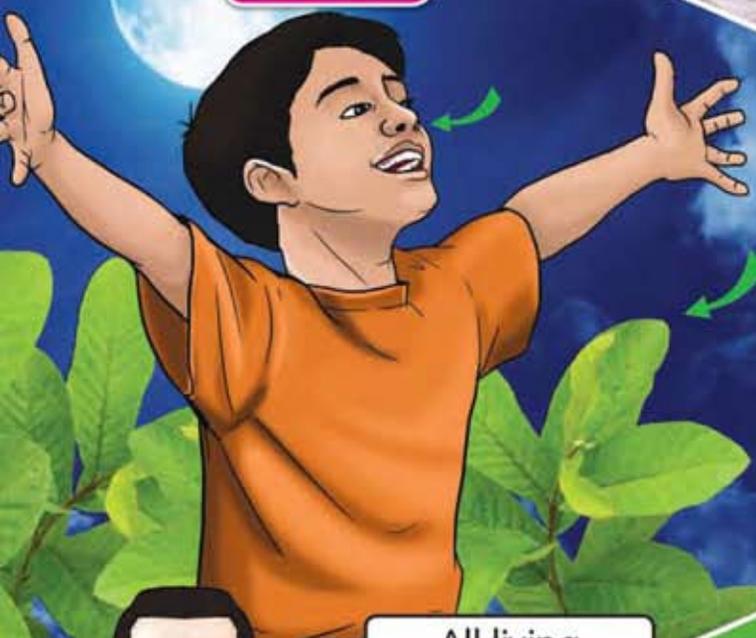


Characteristics of Living Things

Need water and food



Breathe



All living things must have these characteristics.



baby



child



adult

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Move



Reproduce



Grow



egg

chick

chicken



Similar and different

What are the similarities between living things and non-living things? What are the differences?



Birds and aeroplanes can **move**.

What are the **differences** between a bird and an aeroplane?

Birds **breathe, need water and food, reproduce and grow**, while aeroplanes do not.

Birds are **living things**.

Aeroplanes are **non-living things**.



APPARATUS AND MATERIALS

- glue
- marker pen
- manila card
- pictures of a balloon and a frog
- scissors



GROUP ACTIVITY

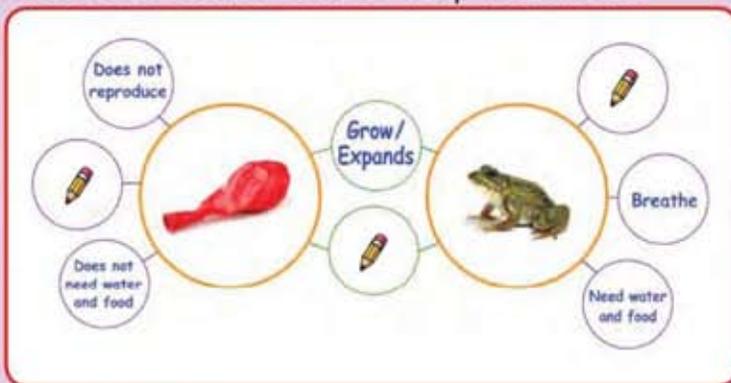


Steps

- 1 Blow a balloon and release it into the air.
- 2 Identify the similarities and differences between a balloon and a frog.
- 3 Record your observation in a table as shown below.

| | Breathe | Need water and food | Move | Reproduce | Grow / Expands |
|---------|---------|---------------------|------|-----------|----------------|
| Frog | ✓ | ✓ | ✓ | ✓ | ✓ |
| Balloon | | | ✓ | | ✓ |

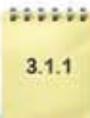
- 4 Produce a double bubble map as follows.



QUESTIONS

1. What are the similarities between a balloon and a frog?
2. What are the differences? Why?

All living things must have these characteristics:
breathe, need water and food, move, reproduce and grow



3.1.1



Teacher's Info

- Ask the pupils to use the base of a bottle and a bottle cap or other suitable objects to produce the bubble map.
- The teacher may use other living things and non-living things in this activity such as a rubber band and a rabbit or a fan and mimosa plant (touch-me-not).



Small and Big



There are various animals in the safari. Are their sizes similar? Let us arrange the animals from big to small.



elephant



gaur



deer



wild cat

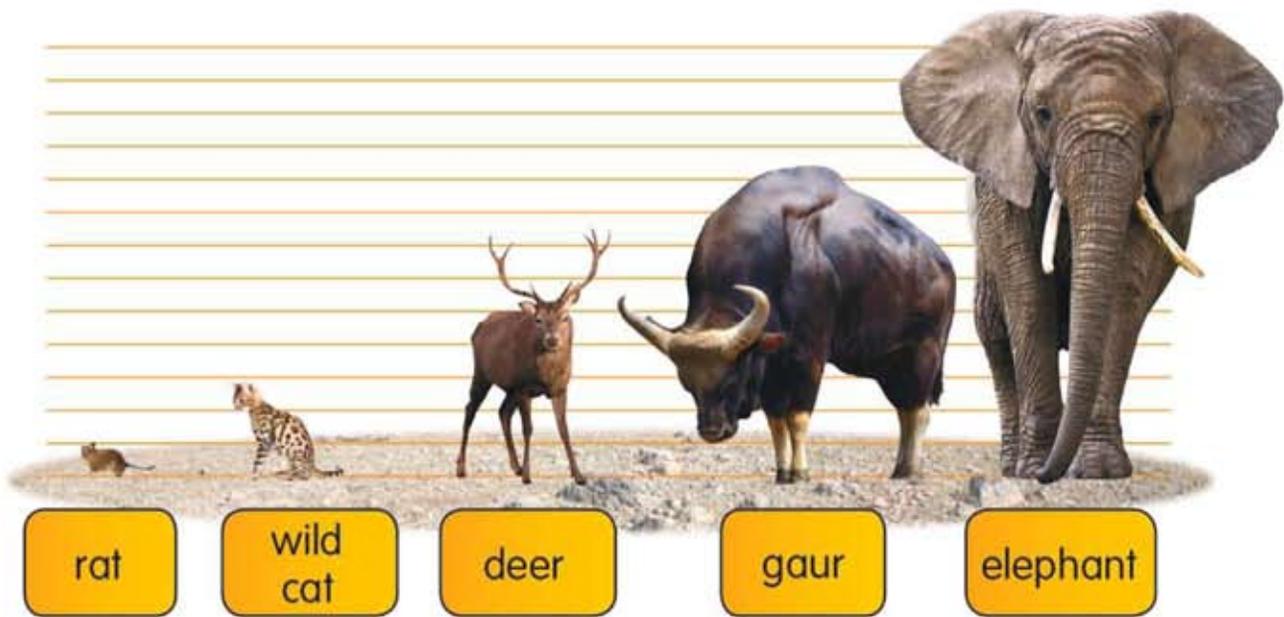


rat

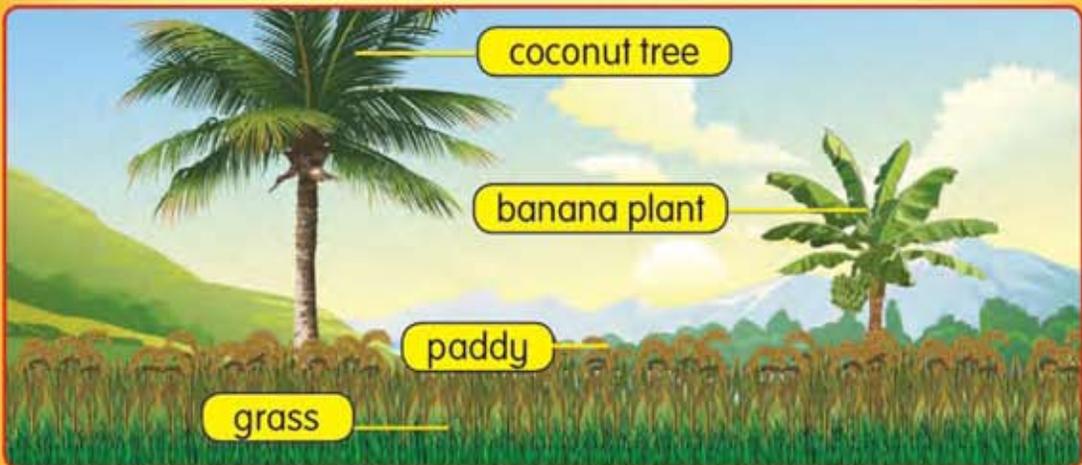
Let's arrange these animals from small to big.



The arrangement of animals from small to big is:



Let's Answer



1. Observe the plants in the picture above.
2. Arrange the plants from small to big.

The arrangement of the plants from small to big is _____ , _____ , _____ and _____ .



Basic Needs of Living Things

Living things need **food, water** and **air**. Humans, animals and plants consume the basic needs in different ways.

Food

Plants make **their own food**.

Humans and animals need food to **get energy**.

Air

Plants need air to **breathe** and to **make food**.

Humans and animals need air to **breathe**.

Water

Humans and animals need water to **quench thirst**.

Plant roots absorb water to **make food**.

3.2.1
3.2.2
3.2.5

Teacher's Info

- Plants also need sunlight to make food.

Activity Book
Pages:

17-18, 20, 22

Humans and animals need protection

Why do humans and animals need shelter?

To protect
from rain
and heat



To protect
from
danger



Humans and animals need shelter to protect themselves from rain, heat and danger.



HOTS

What would happen if humans and animals do not have shelter?

The importance of basic needs

Why is food important to humans and animals?

Food

Provides energy



Food

To grow



Food also enables humans and animals to grow.



HOTS

What would happen if humans and animals do not get food?

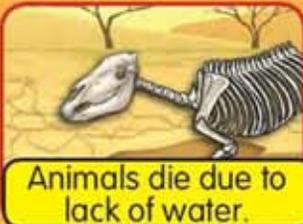
Why are water, air and shelter important to humans and animals?

Water

Basic source of life



Luckily there is still water.



Animals die due to lack of water.

Air

Basic source of life

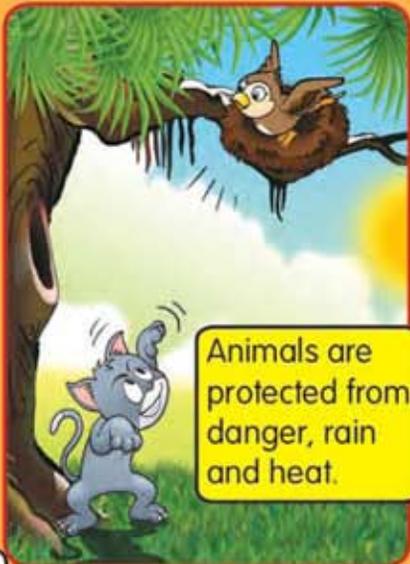


I'll drown.



Thank you. I can breathe again.

Shelter



Animals are protected from danger, rain and heat.

HOTS

What would happen if we do not get air and water?



Let's Test Seeds Germinate



APPARATUS AND MATERIALS

- two plastic containers
- mung beans
- tissue paper
- dropper
- water



GROUP ACTIVITY

Steps



- 1 Label the plastic containers and put tissue paper inside them.



- 2 Put drops of water into container A to wet the tissue paper.



- 3 Place the mung beans in containers A and B.

- 4 Observe the mung beans in both containers after 3 days.
- 5 Sketch the changes to the mung beans.

? QUESTIONS

1. Observe the changes. What are the characteristics of living things that can be observed?
2. What are the basic needs of mung beans?



Let's Revise

1. State all the characteristics of living things.
2. Arrange the animals from small to big. Tell the class.

goat

ant

rabbit

horse



3. Look at the pictures below. Name the basic needs of living things.



4. Why do humans and animals need food?

5. How do plants obtain food?

6. I protect humans and animals from danger and bad weather.

What am I?



Recall

- Living things have basic needs which are food, water and air.

| | Food | Water | Air |
|--------------------|---------------------|---------------|-----------------------|
| Humans and animals | Obtain energy | Quench thirst | Breathe |
| Plants | Make their own food | Make food | Breathe and make food |

- Humans and animals also need shelter to protect themselves from bad weather and danger.



Science Recreation

Produce attractive bookmarks that contain the characteristics of living things.

