

UNDERSTANDING SCIENCE OF **LIFE**

Learn Invent and Forever Explore

2



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Editing
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1. Living and Non-Living Things	7	Describes living and non-living things.	The student will understand how living things are different from non-living things.
2. More About Plants	12	Describes how plants are grouped based on their height; Also explains the various parts of a Plant and how and where plants grow.	The student will learn about different types of plants; how and where they grow and what they need to grow.
3. Food from Plants	19	Describes Fruits and Vegetables; Also explains about seeds which are used as food and other parts of the plants that are used as food.	This chapter will make the student appreciate the importance of plants as we depend on them for food.
4. Other Uses Of Plants	26	Describes the edible and non-edible products from Plants.	The student will understand that apart from food, we also dependant on plants for other important products as well.
5. Wild Animals	31	Describes the homes and eating habits of wild animals; Also explains about how these animals need to be protected.	An interesting chapter in which the student will learn about the homes and food habits of wild animals and that it is important to protect wild animals from becoming extinct.
6. Domestic Animals	35	Describes Pet and Farm animals; Also explains about the uses of domestic animals.	The student will realise how important domestic animals are and therefore the need to take care of them.
7. The Human Body	39	Describes Bones, Muscles and Inner organs in our body; Also explains about the correct Posture.	An important chapter where the student will understand the importance of other inner organs apart from bones and muscles.

Chapter	Page	Description	Values Learnt
8. More About Food	45	Describes the importance of food; Also explains about how Food is divided into groups and Healthy eating habits.	The student will understand that different foods will help our body differently; Will also be aware of healthy eating habits.
9. Air And Wind	50	Describes the Composition of Air and the Impurities in it; Also explains about the Types of Wind and the Uses of Air and Wind.	The student will understand how Air gets polluted; Will also know that there are different kinds of wind.
10. Rocks And Minerals	55	Describes Rocks and Minerals and their Uses.	This chapter will teach the student that different rocks and minerals are seen around us in various forms.
11. Water	62	Describes the various sources of water; Also explains about things that spoil water and also ways to save it; Explains about the different forms of water and the water cycle.	An important chapter where the student will realise the importance of water and understand how necessary it is to conserve it.
12. Our Universe	67	Describes a Planet, the Solar System, the Galaxy and the Universe.	The student will be amazed by the fact that we are just a small part of the universe, which contains many galaxies like ours.
13. Light, Shadow and Rainbow	72	Describes things that produce light; Also explains how Shadows and Rainbows are formed.	The student will understand the scientific reason behind how rainbows and shadows are formed.

Chapter	Page	Description	Values Learnt
14. Seasons, Housing and Clothing	77	Describes the various Seasons; Also explains about different kinds of houses and clothes.	This chapter will teach the student about the diverse seasons and also about various houses and clothes.
15. More About Safety	83	Describes traffic rules; Teaches about how to be safe during festivals; also how to be careful in malls and swimming pools.	A very important chapter where the student will know about the safety measures to be taken in public places.
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Living And Non-Living Things



Backtrack

In Class 1 you had studied about living things and non-living things.



Up Ahead

- More about Living Things
- More about Non-living Things

PUT ON YOUR THINKING CAP

See the pictures below and write 'L' for living things and 'NL' for non-living things.



More about Living Things

Plants, animals and human beings are living things. For example: a tree, a dog and a girl are all living things.

They have the following qualities:

Living Things Breathe

Living things breathe air to live. Without breathing they will die.



Living Things Need Food

Living things feed themselves. They need to eat and drink in order to live.



Living Things Excrete

Living things give out waste. Whatever they feed on, they digest it and give out the waste.

Living Things Grow

Living things grow as time passes by. They never remain the same. They age with time and grow old day by day.



Living Things Feel

Living things feel. They can feel hot, cold, etc.

Living Things Reproduce

Living things can give birth to their kind. They can reproduce themselves.

Living Things can Move

Some living things can move from one place to another. Animals and humans can move but plants cannot go anywhere. They can only sway with the breeze.



Living Things Die

All living things die after some time. Trees live for many years, but grasses die within few weeks. Animals and humans also die. They do not live forever on Earth.

More about Non-Living Things

Non-living things are those which do not have life in them like the living things do.

Non-living things are of two types. They may be natural non-living things like soil, rock or water. They may be man-made too like an aeroplane, gas stove or computer.

Non-living things don't have any qualities matching the living things. In fact, it's just the opposite. So you can easily complete the given exercise, by adding "cannot".





Scoop

Thousands of years ago, wood was first used to make tools, weapons and instruments. The furniture that they used was made of stone. It was only during 3000 BC, that the Egyptians started to use wood to build furniture like tables, chair etc.



Workout

Fill in the blanks.

- 1) Non-living things _____ breathe.
- 2) Non-living things _____ grow.
- 3) Non-living things _____ eat food or drink anything.
- 4) Non-living things _____ move by themselves.
- 5) Non-living things _____ give birth to their kind



They may be made from things that were once alive eg: a wooden chair is made from wood. This wood is taken from a tree, which is a living thing. Non-living things can also be made from things that were never alive. Nails are made from iron. Iron is a metal found in the earth and is non-living.

Zoom Ahead

Robots can go from one place to another and also obey our orders, yet they are non-living. Can you explain why?

OLYMPIAD QUESTIONS



- 1) A Plant is a living thing because:

(A) It grows	(B) It can make more plants
(C) It breathes	(D) All of these
- 2) A Rock is a non-living thing because:

(A) It can't breathe	(B) It cannot move by itself
(C) It cannot eat	(D) All of these



IN A NUT SHELL

- Living things are plants, animals and human beings.
- Living things grow as time passes by.
- Living things can give birth to their kind.
- Non-living things are those which do not have life in them.
- They may be natural non-living things or man-made non living things.



 **Eureka!****A. Mark True (T) or False (F).**

1. Living things breathe air to live. ()
2. Living things cannot feed themselves. ()
3. Living things do not give out waste. ()
4. Soil is not a natural non-living thing. ()
5. Computer is a man-made non-living thing. ()

B. Fill in the blanks.

1. A tree, a fox and a girl, are all _____ things.
2. Without breathing, living things will _____.
3. Living things _____ as time passes by.
4. Non-living things like the chair are made of living things like _____.
5. A _____ is a natural non-living thing.

C. Explain briefly in 1-2 lines.

1. Name 3 qualities of Living things.

2. How many types of non-living things are there? Give examples.



We learnt that all living things need air to breathe, otherwise they die. Does the fish breathe air? Find out how.