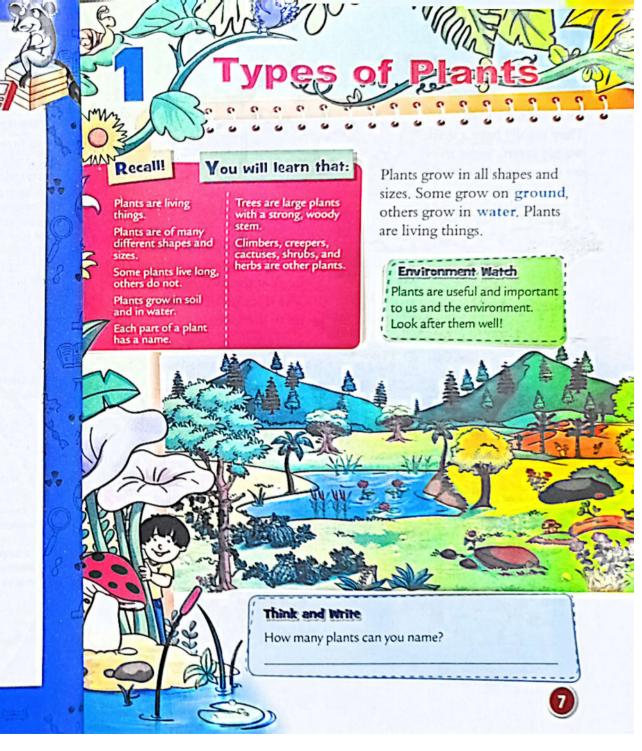






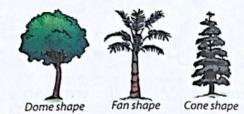
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Trees

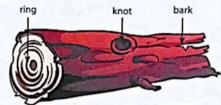
Trees are the largest plants. They are tall and strong. They usually have a single woody stem. Some trees are thousands of years old.





In thick forests or jungles, trees grow close to each other. Look at the picture alongside. The trees are all trying to reach up to the sunlight.

This piece of wood is from the trunk of a tree. Each year the tree grows a new coat or skin. The bark stretches and cracks.





Grapevine (climber)

Climbers and Creepers

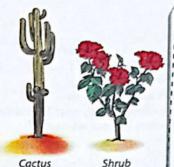
These have a weak stem. Climbers climb up sticks, walls, or trees. Creepers grow along the ground.



Watermelon (creeper)

Cactuses

There are many kinds of cactuses. They usually grow in dry grasslands or semi-desert regions. They have spines (thorns) which are modified leaves.



Myth vs Fact

Can cactuses survive without any water or nutrients?

Cactuses need some nutrients in the soil and they also need water. Their spines channel moisture to the roots and also provide some shade!

Shrubs

Shrubs are small plants. They have many separate stems which grow from near the ground. The stems are hard and do not bend easily.

Herbs

Herbs grow in gardens and in the wild. Herbs are small and have soft, weak stems. Herbs are used for food. We make medicines and perfumes from herbs.



Mint and coriander herbs

Weeds are also herbs. These are plants which grow where we don't want them to grow!



Water plants

Grasses and Water Plants

There are many kinds of grasses and reeds. They may be short or tall, brown, yellow, or green. Water plants grow in water or in wet soil under water.

Concept Check

Label the figure with these words: flower, stem, leaves, water, air, floating plant, water surface

Think and Answer

Where does a floating plant get its nutrients from?







We use plants too. We use the flowers and leaves from plants as decorations and at special times.

Plants give us food. We eat the fruit, nuts, and berries which grow on some plants. We also eat the roots, stems, leaves, and seeds of some plants.







Complete each sentence using a word beginning with F.



- 1. Plants provide for animals and humans.
- 2. Some plants produce _____, which we use for decorations.
- 3. We eat different parts of plants such as ______, nuts, roots, stems, leaves and seeds.

Discuss; and Answer;

Do this activity after reading page 15: With a partner, make a list of twenty things that you have eaten, drunk, or used in the last 24 hours that come from a plant. Could we live without plants?

Plants also give us fibres. With cotton fibres we make thread and cloth. With jute fibre we make sacks, mats, bags, and rope.



From trees we get wood. We use wood to make a number of things. We build things with wood.





'beverage: A drink other than water



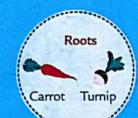


Compost and manure





plant fibres fibers that we get from plants such as cotton and jute jute coarse fibre used for making sacks and ropes











We use wood to make useful things







everyday use.

Soaps, oils, gum, rubber Plans are used in many products for

with. Plants have many uses. They make the world beautiful. Humans and animals

use plants.



and jute.

EXERCISES

d. sweet

C	noose the correct option	on.
1.	Which of the followin	g is usually made out of wood?
	a. mobile phone	b. car tyres
	c. shoes	d. newspaper
2.	Which of the following	g is NOT a root vegetable?
	a. carrot	b. sweet potato
	c. cucumber	d. radish
3.	growing plants. It is m	
	a. decayed plant mat	erials
	b. a mixture of mud a	and manure
	c. wood	
	d. rubbish that we thr	ow away
4.	Wood is a good mate	rial to build with because
	a. it lasts forever and	does not break
	b. it is waterproof, st	rong, and easy to clean
	c. it is strong and lon	g lasting
10	d. it is strong and wil	l not burn
5.	We should eat fresh fr	uits and vegetables because they are
	a. bright and colourfu	Root veet III
	b. full of vitamins and	minerals
	c. inexpensive	Commence of the Commence of th

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Recall!

Man makes all kinds of things: some big, some small.

Some things are beautiful and others are useful

We use machines and tools to do work and move things.

Living things move non-living things move when pushed or pulled.

You will learn that:

Living things breathe, move, eat, and grow; they reproduce.

Some non-living things are made of natural materials.

Natural materials come from plants, animals, and minerals

Some non-living things are made by humans.

Matter has three states: solid liquid, and gas.

Rocks are found on the surface and underground.

Rocks are used to make many

We can put everything in the world into three groups; alive. once alive, and never alive.



Alive

These things are living. They breathe, move, eat, and grow.

Once Alive

These things were once living. They are now dead. Some such things were made by humans.



Never Alive

These things were never alive. They do not move, eat, grow, or breathe. They do not have babies. Ring



Think and Write

How is a pet dog different from a toy dog? Write your answer in two sentences. ___

Man-made Things

Man-made things are made out of different materials. Some materials come from plants and animals. Some materials are dug out of the ground. Some materials are made by man, e.g., plastic and nylon.

From plants



Plants give us fibres such as jute, and cotton. From plants we also get wood.

From animals



From animals we get wool, leather, bone, and fur.

From minerals



Materials from the ground are metals, precious stones, and clay.

Things can be solid, liquid, or gas.

Solids

We can see, touch, feel, weigh, and describe solids. Most solids are hard. Rock, ice, and sand are solids.





Liquids D

We can see and touch liquids. We can pour liquids. Some solids can be made into liquids. When a solid candle or ice-cube is heated, it becomes a liquid. Milk, water, and petrol are liquids.



Melting wax

Melting ice cubes

Gases

The air* around us is made up of gas. We cannot see gases. One important gas is called oxygen. We need oxygen to live. A candle flame needs oxygen to burn. Water vapour is a gas.

*You will learn more about air in Chapter 8.



Water vapour





Concept, Check

Use the words solids, liquids, gases/gas to complete the statements.



can be poured.

2. You can touch

cannot be seen.

4. The _____ we need to live is called oxygen,

Discuss; and Answer

Read this list of drinks: cola, milk, tea, juice, water, coffee, lemonade. Which of the items listed above are man-made? Do they come from plants, animals, or minerals?

More About Solids: Rocks

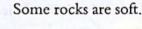
Rocks are found on the surface of the Earth. Rocks are also found underground. Pebbles, sand, and soil were once part of much



Types of Rocks

larger rocks.

Some rocks are hard.











Chalk

Rocks are used in many ways. Rocks are blown up with sticks of dynamite. They are then cut with machines or with a hammer and chisel. Rocks are used to make many things.





stone







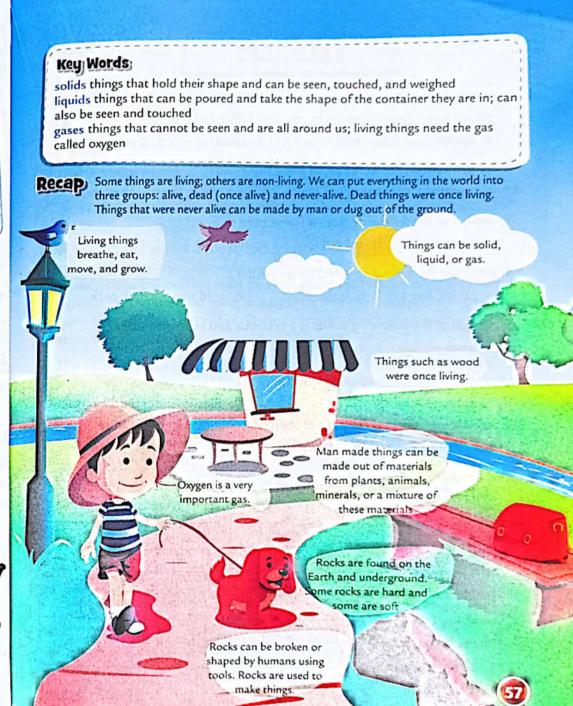
Stone bench



Ruby Earings

Coal







	Cho	ose the correct option.
	1. \	Which two of the following things were NEVER ALIVE?
		a. spoon b. chalk c. salad d. tree
	2.	Which of the following can all living things do?
		a. breathe b. eat c. grow d. move e. all of these
		Which of the following does a flame need to burn? a. cloud
		Which of the following is NOT man-made? a. plastic bag b. leather belt c. gold ring d. rock
	5.	Which of the following solids is a precious and expensive stone? a. coal b. ruby c. wool d. chalk
в.	Ma	ark the sentences with a v or v.
	1.	Graphite is a hard rock. 2. Plastic is found underground.
	3.	Wool comes from animals. 4. Jute is a type of fibre.
	5.	Rocks can be blown up with dynamite.
C.	An	swer these questions.
	1.	What kind of material is clay?
	2.	What things are made from animal skins?
	3.	Name three things made out of plastic.
	4.	Name three things made from natural materials.
V 4	30	
1	-C - B	

- D. From which materials might these things be made? (Remember that some of the things can be made from more than one material.) belt, shirt, clock, pencil, tyre, vase
- E. Make a-table in your notebook with these headings: alive, never alive, and dead (made into things by man). List five things under each.
- F. Think about it!
 - 1. When a flower is plucked is it still alive? Tell your teacher what you think.
 - 2. How do you think pebbles and small grains of sand were formed?

Activities and Projects

- 1. Choose three things. One must be alive; one must be something that was never alive; and the third must be an object that has been made from something that was once alive. Draw a picture of each thing and write a few sentences about it.
- 2. The air we breathe contains water vapour. Set up an experiment to show this is true. You will need a mirror or something made of glass. If you don't have a mirror, what might you use?
 - First open your mouth and breathe hard out of your mouth onto the palm of your hand. Is your breath warm or cold? Now breathe out onto the mirror. What happens? What happens to the surface of the mirror? What does this tell you?
- 3. Collect rocks of different colours. Display these in the classroom. Which ones can be broken easily? Which ones are too hard to break? Also, collect sand and soil of different colours and pour them carefully, one at a time, into a glass jar.

Teacher's: Notes:

- ✓ It is important to learn how to sort and classify. Practise sorting other groups too. Give other examples of how materials change by heating or cooling.
- In the experiment, what collects on the mirror is vapour. Vapour forms drops of water when it comes into contact with a cooler surface. (It condenses. Use this word now, so that the children become familiar with it.)
- Get the children to bring samples of rock to class. Say a little about how rocks are broken down into smaller pieces over a length of time by weathering and abrasion.