



Our Plants

Here are some amazing things about plants:

1. Seeds to Life

Tiny seeds can grow into big plants. With water, air, sunlight, and soil, seeds start to sprout and turn into strong plants.



2. Different Kinds

Plants come in many shapes and sizes. Some are tall like trees, some are small like grass, and some have flowers, fruits, or even thorns.



3. Plant Helpers

Plants give us oxygen to breathe, shade on hot days, tasty fruits, vegetables to eat, medicines to stay healthy, and help keep the Earth green.



4. Be Kind to Plants

Plants are living things too. We should water them, protect them, and keep our surroundings clean so they can grow well.



Encourage children to observe plants around them and talk about their uses and importance.





5. Giant Water Lily :

The giant water lily has huge round leaves that float on water. These leaves can grow as wide as 2 metres! It is found in lakes and slow-moving rivers of South America.



Think & Share

- What are the most common plants you see near your home or school?



Match the plant parts with their functions. Write the correct name from the help box.

1. I make food for the plant. :
2. I hold the plant firmly in the soil. :
3. I carry water and minerals from the roots. :
4. I help in making new seeds. :
5. I protect the tiny seed inside me. :



Help List

flower

stem

root

leaf

fruit





Animals and their World

Animals live all around us-in forests, rivers, mountains, oceans, and even in our homes! Each animal has special features that help it survive in its surroundings .

1. Polar Bear

Polar bears live in the icy Arctic region. They have thick white fur and a layer of blubber to keep them warm. They are excellent swimmers and hunt seals for food.



2. Clownfish

Clownfish live in warm ocean waters among sea anemones. The anemone's tentacles protect them from danger. In return, clownfish help keep the anemone clean.

3. Kangaroo

Kangaroos are found in Australia. They have strong hind legs that help them jump long distances. A baby kangaroo, called a joey, grows in its mother's pouch.



4. Hummingbird

Hummingbirds are tiny birds that can fly very fast. They feed on flower nectar using their long beaks. Their wings beat so quickly that they can even fly backward!



Explain to the students some unique facts about marine mammals.





Unit-1: Nature

5. Snow Leopard

Snow leopards live in the cold mountains of Central Asia. Their thick, spotted fur helps them blend in with rocks and snow. They are strong climbers and can leap great distances.



6. Dolphin

Dolphins are intelligent marine mammals known for their playful nature. They live in groups called pods and communicate using clicks and whistles.



7. Chameleon

Chameleons are lizards famous for changing the colour of their skin. They use this ability to hide from predators and to communicate with other chameleons.

Quick Quiz

1. Which animal is known as the “Ship of the Desert”?
2. Name a bird that cannot fly but swims very well.
3. Which animal has black and white stripes?
4. Which insect is known for making honey?



Fill in the blanks.

1. The fastest land animal is the _____.
2. _____ builds large mud houses near rivers.
3. The giraffe has the longest _____.
4. _____ is the largest animal on Earth.



Amazing fact

Octopuses have three hearts and blue blood! They are excellent problem solvers.





Natural Resources and Plants

Many plants around us have amazing healing properties. Find the names of these plants in the puzzle and write them below.

T	U	R	M	E	R	I	C	N	A	N
A	L	O	E	V	E	R	A	I	P	B
A	S	H	W	A	G	A	N	D	H	A
G	I	L	O	Y	N	E	E	M	C	S
B	R	A	H	M	I	C	O	V	A	G
B	A	S	I	L	L	E	A	F	Y	W
N	O	N	I	T	U	L	S	I	C	D
A	M	L	A	F	E	N	U	G	R	E
G	U	A	V	A	L	E	A	F	R	S
F	E	N	N	E	L	S	E	E	D	O

Nature provides us with many useful resources. Plants are one of the most valuable gifts!



Aloe Vera



Holy Basil (Tulsi)

Plant Uses

- Helps in boosting immunity.
- Soothes skin and helps in healing burns.
- Used as an anti-inflammatory and pain reliever.
- Good for digestion and common cold.
- Improves memory and reduces stress.
- Helps in controlling blood sugar.
- Natural antibacterial and antiseptic.
- Used in soups and helps in detoxifying body



Turmeric



Ginger



Garlic



Amla (Gooseberry)



Mint



Lemongrass



Think & Answer

Can you name any other plant that is used as medicine in your home?



Help List

Almond Garlic Turmeric Aloe Vera
Tulsi Mint Am la Ginger



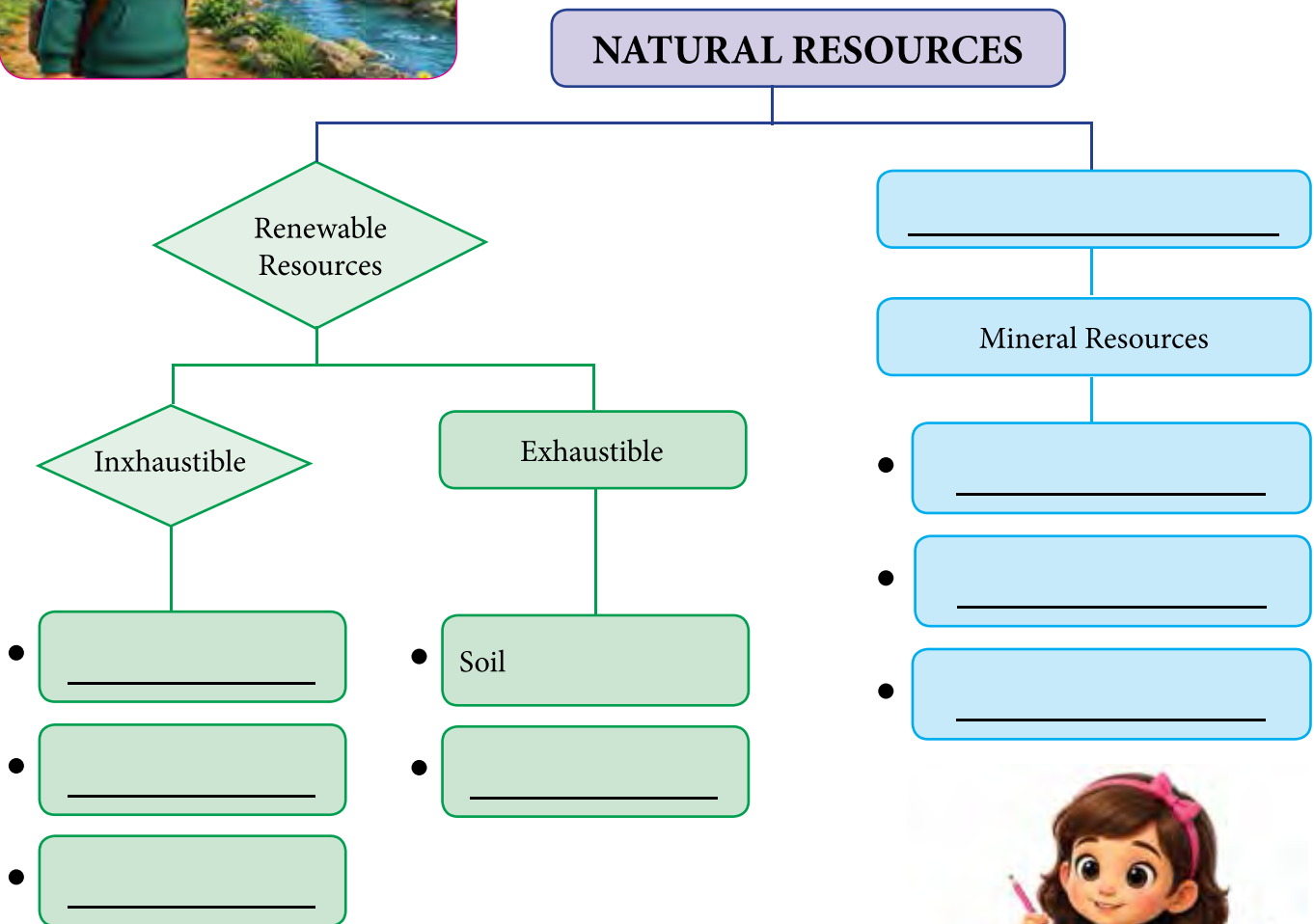
Teacher Note

Encourage students to learn about medicinal plants and how they can be grown and used safely.





Complete the flow chart using the help of the Help List:



Help List

Sunlight
Wind
Water

Non-renewable Resources
Oil
Coal

Animal products
Natural gas
Geothermal energy



Info Bit

One tree can provide enough oxygen for two people to breathe for an entire year!





Space Mission and Scientists

Space missions help us learn about distant planets, stars, and the universe. Scientists and astronauts work together to explore space and make our future better.

1. India's Mangalyaan Missions

India launched its first mission to Mars called Mangalyaan on 5 November 2013. It reached Mars orbit on 24 September 2014. This was a big achievement for India and made it the first country to reach Mars orbit in its very first attempt. Mangalyaan studies the Martian surface, its atmosphere, and its weather.



2. Kalpana Chawla

Kalpana Chawla was an Indian-American astronaut and aerospace engineer. She went to space on Space Shuttle Columbia in 1997 and again in 2003. She inspired millions of people, especially girls in India, to dream big and aim for the stars. Sadly, she lost her life in the Columbia accident on 1 February 2003 while returning from space.

3. Neil Armstrong

Neil Armstrong was an American astronaut and the first person to walk on the Moon. On 20 July 1969, during the Apollo 11 mission, he stepped onto the Moon and said, "That's one small step for man, one giant leap for mankind." His brave journey opened the doors for more space exploration.



4. Chandrayaan Missions

ISRO launched Chandrayaan-1 in 2008, Chandrayaan-2 in 2019, and Chandrayaan-3 in 2023. Chandrayaan-3 successfully landed near the South Pole of the Moon on 23 August 2023. These missions help us understand the Moon's surface, minerals, and environment better and are a proud moment for India.



Teacher Note

Encourage children to collect information about space missions and inspiring scientists. Ask them to create a poster or model.





Space Mission and Scientists

Space missions help us explore beyond our planet. Brave scientists and astronauts have made it possible to travel in space and discover new things.

Sputnik 1 - The First Satellite

On 4 October 1957, the Soviet Union launched Sputnik 1. It was the world's first artificial satellite. This small metal sphere opened the door to the space age and changed the history of space exploration.



Yuri Gagarin

Yuri Alekseyevich Gagarin was a Soviet pilot and cosmonaut. On 12 April 1961, he became the first human to travel into space. He orbited the Earth in Vostok 1 spacecraft and made history.



Rakesh Sharma

Rakesh Sharma is an Indian Air Force officer and was the first Indian to go to space. He flew aboard the Soviet spacecraft SoyuzT-11 on 3 April 1984. He proudly said, "Saare Jahan Se Achha" when asked about India from space.



Kalpana Chawla

Kalpana Chawla was an Indian-American astronaut and engineer. She went to space on Space Shuttle Columbia in 1997. She inspired millions of people around the world with her dedication and dreams.



Answer the following question.

- Who was the first human to travel into space?
- Which spacecraft did Yuri Gagarin travel in?
- When did Rakesh Sharma go to space?
- On which space shuttle did Kalpana Chawla travel?
- Which was the first artificial satellite launched by the Soviet Union?
- Name the country that launched Sputnik 1.

Fill in the blanks.

- _____ was the first man to travel into space.
- Rakesh Sharma went to space in the _____ mission.
- Kalpana Chawla traveled to space on _____ shuttle.
- Sputnik 1 was launched on _____.
- The first artificial satellite was launched by the _____ Union.



Help List

4 October 1957
Vostok 1

12 April 1961
3 April 1984

SoyuzT-11
Space Shuttle Columbi

First artificial satellite
Soviet Union

