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- National Education Policy 2020
- Activity Based
- Innovative Approach
- Learning with fun
- Used Eco Friendly Paper









Environmental studies have assumed great significance in education of a child in recent times. The subject covers every aspect of the world in which the child lives, his ownself, how he should care for his health and the way he should behave in the society. It is very important for a child to get aware of his/her surroundings.

The book "Green Planet" is a series of 1 to 5 which is strictly based on the guidelines of NEP 2020 pattern to facilitate the teaching and learning of Green Planet.

The contents presented in these books have been selected keeping in view the physical and mental growth of the child. There will be an active participation of the students through regular exercises and activities within the text.

#### Key Features of the Series

- Covers the latest syllabus of various boards.
- All the exercises in the books can be used as tasks for Revision Test Papers and Model Test Papers.
- Interactive study approach is considered.
- An activity is provided in each chapter to facilitate hands-on learning and consolidation of environmental concepts.
- Summary is given at the end of each chapter to highlight some important points of the topics.
- Exercises are carefully graded and contain a wide variety of problems. They help the children to connect what they are learning to everyday situations.
- Let Me Answer is given in each chapter to enhance learning.
- Infobits are also given in each chapter.
- Teacher Notes are given in each chapter where ever required.

We hope that the series will fulfil the needs of teachers and students by its virtue of its plus points. Still, there is always a room for improvement. Any suggestions from the teachers as well as the parents would be highly acknowledged and truly appreciated.

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# **Our Internal Organs**



- Internal organs and their uses
- Sensing the world

Each one of us looks different in some way or the other. We have **external** organs and **internal** organs. We can see and touch some parts such as feet, hair, hands, nose, etc. These are external organs.

### **Internal Organs and Their Uses**

Some parts of the body are inside the body. We cannot see them such as brain, lungs, kidneys, stomach etc. These are called internal organs.

# Let Me Answer

How many times does a heart beat in a minute?



#### **Brain**

Our brain helps us to think. It controls all our sense organs and the way we think. It is located inside our head.

#### Heart

Heart is located inside our chest (on the left side). The heart pumps blood to the whole body.





### Lungs

Our lungs help us to breathe. There is a pair of lungs located inside our chest.

#### **Stomach**

The food that we swallow goes to the stomach. It churns the food and helps in digestion.

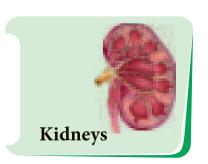


#### TEACHER'S NOTES

Tell the students about the various types of internal organs. Use the models and pictures of these organs to explain their functioning and importance in the body.

Besides these, we have **liver**, **kidneys** and many other organs inside our body.





My **eyes** help me to see different things.



Sensing the world

Eyes, ears, nose, tongue, and skin are our sense organs.



• Every person in the world has unique and unmatchable fingerprints, toe prints and tongue-prints.

My ears
help me to
hear different
sounds.



Kids IQ

Which is the largest internal organ in the human body?

My tongue helps me to taste sweet, sour, salty and bitter things.



I feel hard, soft, cold, hot, smooth and rough things using my skin.



### Fact Finder

• The human liver can regenerate lost tissue, often restoring itself to its original size and function.





- + Brain controls our sense organs.
- + The heart pumps blood to the whole body.
- + Lungs help us to breathe.



<b>A.</b>	Tic	ick (✓) the correct option.						
	a.	Which of these is an internal organ?						
		Skin	Eye	s	Lungs			
	b.	Which of these is an extern	alorg	an?				
		Stomach	Kid	neys 🔵	Ears			
	c.	Our tongue helps us to		. •	•			
		See	Tas	re 🕥	Smell 🗍			
	d.	Which one of these is locate	ed on	the left side of ou	r chest?			
		Nose	Ton	gue 🔵	Heart 🔵			
<b>B.</b>	Fil	l in the blanks.			~			
	a.	Ourhelps us	s to th	ink.				
	b.	Ourhelps us	s to br	eathe.				
	c.	The food that we swallow g	goes to	the				
	d.	Our lungs help us to		·				
	e.	Liver and kidneys are		organs.				
C.	Ma	atch the columns.						
	a.	The heart	(i)	help us to breat	he.			
	b.	Thelungs	(ii)	is an internal or	gan.			
	c.	The stomach	(iii)	helps us to thin	k.			
	d.	The brain	(iv)	pumps blood.				
	e.	Liver	(v)	helps to digest f	ood.			
D.	An	swer the following question	ns.					
	a.	What do you know about in		al organs?				

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- b. What do you know about external organs?
- c. What is the function of brain?
- d. What is the function of lungs?



### A. Drawing an outline of the body.

Perform this activity in pairs. One of the partners must lie down on the centre of a big sheet. Ask your partner to draw the outline of your body with a black crayon. Draw the different organs of your body in the outline and label them. Draw the face and fingers too. You can dress up the figure too and hang it on the wall.



# B. Regular exercise is good for our body. Do these two simple yogasanas to stay fit and healthy.







# Living and NonlivingThings



- Living things and non-living things
- Features of living things

#### Living and Non-Living things

In this world, there are many types of living and non-living things. For example, human beings, animals, insects, plants and trees are all living things, which have some special features. All living things need air, water and food to survive. There are few similarities among various kinds of living things. Things that do not have life are called non-living things. Chair, table, book are non-living things.



Human beings breathe through their nose



Leaves breathe from stomata



Earthworms breathe through their skin

# **Features of Living Things** Living Things Need Air to Live

Air is a mixture of many gases. One of them is oxygen. Oxygen is required to breathe for all living things. All living things breathe in various ways.

Human beings

and animals breathe through the nose. Some animals like the earthworms breathe through their skin. These earthworms make the soil fertile. Some aquatic animals like fish, tadpole etc. breathe through their gills. They use oxygen dissolved in water.



Fish breathe through their gills

Plants breathe through, tiny openings called stomata. Stomata are found on

TEACHER'S NOTES

They emphasis on the differences between living and non-living things.













Various uses of water

leaves. Some plants also have stomata on their stems and roots.

### **Living Things Need Water for Different Purposes**

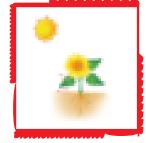
All living things need water for different purposes. Human beings need water to drink, bathe, wash etc. Animals require water to drink and bathe.

Plants require water to make food. They also require water for evaporation.

# **Living Things Need Food**

All living things take food to get energy.

Plants are the only things that can prepare food with the help of sunlight, water, carbon-dioxide, minerals etc. Leaves



Sunflower

prepare food for plants and process of preparing food is called **photosynthesis**. Plants also need food to grow. Sunflower turns towards sunlight and prepare

#### 🎍 Let Me Answer

Can plants move from one place to another? Which type of movement do plants show?



Human



Cow



Dog



Plant

food from sunlight.

All human beings and animals depend on plants for their food directly or indirectly.

### **Living Things have Movement**

All living things have different types of movements. Human beings can move from one place to another place for many purposes.

Animals move from place to place in search of food and shelter. Birds have wings to fly and feet to walk.

Plants cannot move directly from one place to another, but show various types of movements.







• Plants also breathe and prepare food. The plants prepare food from water, carbon-dioxide and sunlight.

Horse Bird All Living Things Grow

All living things are born, grow become adult, then old and die. You can note down many changes during the period of growth.

Seeds become plants and plants grow further and become trees.



# All Living Things have Young Ones

All living things reproduce their young ones to maintain their race. All human beings and animals like dog, cat, horse, elephant, giraffe, cow etc., give birth to



young ones. Living things that give birth to young ones are called mammals.

Birds, insects, fish, turtle etc., lay eggs. After some time (hatching), their young ones come out of the eggs.

Most of the plants grow from seeds but some plants also grow from stems, roots or branch.









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- + All living things need air, water and food to survive.
- + Plants require water to make food.
- → All living things have different types of movements.
- + Living things that give birth to young ones are called mammals.

# Fact Finder

Living things can grow, reproduce, and respond to stimuli, while non-living things lack these characteristics and do not exhibit life processes.



#### A. Tick $(\checkmark)$ the correct option. Plants breathe through Nose Mouth Stomata All living things breathe through Same organ [ Different organs Nose Mouth Earthworms breath through Nose Skins Gills Living things that give birth to young ones are called Mammals Reptiles

#### B. Fill in the blanks.

Birds

- 1. Human beings breathe through their \_\_\_\_\_\_.
- 2. Food is the source of \_\_\_\_\_\_.
- 3. Plants breathe through \_\_\_\_\_\_.
- 4. Plants need\_\_\_\_\_\_to make food.

C.	Wri	rite true and false.					
	a.	All living things change with their growth.					
	b.	Stems and roots of some plants also	have	e stomata.			
	c.	Some animals reproduce by laying of	eggs.				
	d.	All living things have nose to breath	ne.				
D.	Mat	tch the columns.					
	a.	Leaves	(i)	Nose			
	b.	Human beings	(ii)	Gills			
	c.	Fish	(iii)	) Stomata			
	d.	Earthworm	(iv)	) Skin			
E.	Ans	swer the following questions.					
	a.	What is photosynthesis?					
	b.	What happens when living things a	re bo	orn?			
	c.	How do fish breathe?					
	d.	How do plants prepare their food?					



- A. Collect different types of leaves. Dry them and paste them in your scrapbook.
- B. Play with a dog and observe what are the similarities between dog and you.



# **Our Food**



- Need of food
- The journey of food

- Food from plants
- Food of different regions

#### **Need of Food**

Food is one of our most basic needs. We need food to get energy to work and play. We need food to grow strong. Food helps us to stay healthy and free of diseases.

#### **Food from Plants**

Most of the food that we eat comes from plants. Cereals, pulses, fruits and vegetables, spices, oil, etc. are all obtained from plants. We also get beverages like tea and coffee from the plants.

#### **Cereals and Pulses**

Foodgrains like rice, wheat, oats, maize and millets are called cereals. Urad, gram, arhar, kidney beans, etc. are pulses.

Cereals and pulses together are called **foodgrains**. Rice is a staple food in many parts of the country. Wheat flour is used to make chapattis, bread, etc.





# infobits.

• Pulses are rich source of proteins. They help in the growth of our body.

#### **TEACHER'S NOTES**

Tell the students about healthy food habits. Tell them about the foods that we need for our growth. Also, tell them about how we get the food from farms to our plate.

### Fruits and Vegetables

Fruits and vegetables are also obtained from plants. They are full of vitamins and minerals and good for health. They protect us from diseases and keep us healthy. Mango, banana, cherry, orange, pineapple, papaya, and grapes are some popular fruits.



# infobits

 Rasins, almonds, cashewnuts, pistachio and walnuts are dry fruits that are good for health.

#### Fruits and Vegetables

Fruits are eaten raw. We also drink the juices of different fruits. Peas, carrot, gourd, potato, turnip and radish are some common vegetables. They are eaten raw or after cooking.

#### Oil Seeds

Different kind of oils are used in different parts of India for cooking. Oil is extracted from special seeds called **oilseeds**. Oilseeds are crushed to get oil. Groundnut, sesame, mustard, olive, sunflower and soyabean are some of the most commonly used oilseeds.



Oilseeds

### Let Me Answer

Can plants move from one place to another? No. Then which types of movement do plants show?

### **Spices**

Spices are added to the food to give it flavour, taste and colour. We get spices from flowers, stem, fruits, bark, seeds and roots of the plants.



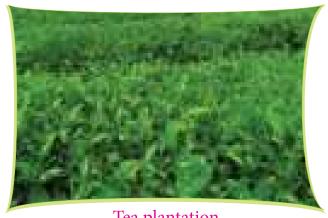
### **Beverages**

Leaves of some plants are used to make drinks. These drinks are called beverages. Tea and coffee are popular beverages obtained from plants.

# The Journey of Food

The journey of food starts in the fields of the farmers. Farmers grow crop plants on large areas of land called farms. The farmer first prepares the field by **ploughing** it. Small farmers use oxen to plough their fields whereas big farmers use tractors for the same.

Then he adds manures and fertilizers to the soil to increase the yield of his crop. The second step is **sowing** the seeds. After a few days the seeds germinate and small plants appear.



Tea plantation



Spices like ginger, cloves and turmeric can be used as medicines.



Farmer grows crops



Ploughing the fields



Sowing the seeds



Irrigating the field







Harvesting the crop

Threshing the crop

Winnowing the crop

The third step is **irrigating** the crops. The young plants are watered regularly and sprayed with pesticides and insecticides to keep them safe from insects.

The crops grow in about six months. They are then ready to be cut. The fourth step is **harvesting** i.e. cutting the crops.

After the crops have been harvested, grains are separated from the plants. This is called threshing. Removing the husk further cleans grains. This is called winnowing. Now the crops are ready to be packed and sent to the market on the tractor, truck or bullock cart.

The crop is transported to the wholesale market or mandi. From the wholesale market this food stuff is bought by the retailers. We buy the food stuff from the retailers.

#### Let Me Answer

Here the farming processes are given below. Can you arrange them in the correct order? Adding fertilisers, sowing the seeds, ploughing.

# **Food of Different Regions**



Farmers grow crops in their fields.



food items from the fields to the wholesale markets.



Wholesalers buy and transport Retailers and vendors buy food items from mandis and sell them in local markets.



The food items are washed, cleaned and cooked at home.



We eat and enjoy this food together.



Dal-Bati Choorma from Rajasthan.



Makki ki Roti, Sarson Ka Saag from Punjab.



Fish curry, rice and rasogulla from Bengal.



Dhokla, Thepla and Khandvi from Gujarat.



- + Food is one of our most basic needs.
- + Plants are the main source of food.
- + Cereals and pulses together are called foodgrains.
- + Oil is extracted from special seeds called oilseeds.
- + Fruits and vegetables are also obtained from plants.
- + Spices are added to the food to give it flavour, taste and colour.
- + The journey of food has these steps.
  - Ploughing the field Sowing the seeds Irrigating the field
  - ♣ Harvesting the crops ♣ Threshing the crop ♣ Winnowing the crop.
- → Different regions have their own special food items.

# Fact Finder

Bananas are berries, while strawberries are not actually berries but aggregate fruits.



option.

a. Which of these is a dry fruit?

Apple Almond

Cake



b. Which of these is not a spice?

Bayleaf

Cinnamon

Coffee



	c.	Cardamom is a							
		Fruit Oilseed Spice							
	d.	Wholesalers sell food to the							
		Retailers Shopkeepers Both of them							
<b>B.</b>	Give	e two examples of each.							
	a.	Spices b. Oilseeds c. Cereals							
C.	Ans	swer the following questions in short.							
	a.	Which is the staple food in many parts of the country?							
	b.	What is the famous food of Rajasthan?							
	c.	What are cereals?							
	d.	What is used to make chapattis, bread etc.?							
	e.	What is winnowing?							
D.	Ans	wer the following questions.							
	a.	Why do we need food?							
	b.	What are foodgrains? Explain.							
	c.	What are beverages?							
	d.	Describe the journey of food.							
	A								

Activity Time

Collect the samples of different spices in small plastic packets. Attach them in your EVS notebook and label them.

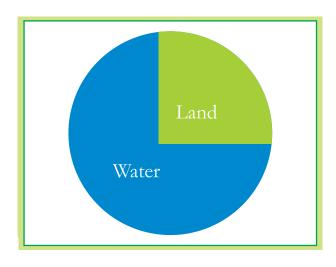
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# Water



- Uses of water
- Condensation
- Sources of water
- Evaporation
- Storing Water



#### **Uses of Water**

All living things need water to survive. We need water for drinking, bathing, washing, cooking and for many other activities. Plants need water to live and grow. Animals also need water to drink and bathe.

About three fourth of our planet Earth is covered with water. Therefore, Earth is

also known as blue planet. Most of the water on the Earth is present in seas

and oceans which is salty. Some part of water is frozen in the form of ice or snow. Only one percent of Earth's water is fresh drinking water which is available in rivers, lakes and wells.





# **Sources of Water**

Let us study about various sources of water:

#### Rain

Rain is the main source of water on Earth. It fills rivers, lakes and ponds during the monsoon season. Some rain water seeps into the ground and fills



Tell the students about water and its various sources. Also, tell them about the things in which we use water. Encourage them to save water and use it efficiently.

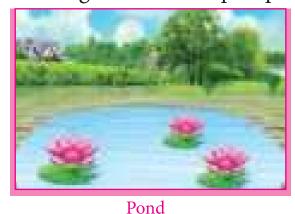
wells and raise ground water level.

# Let Me Answer How does cloud formation take place?

### **Underground Water**

The rainwater that seeps into the ground, gets collected as underground water. This water is safe and clean for drinking. Wells, handpumps and





Lake

tubewells are used to take out underground

water. Sometimes, underground water appears on the surface in the form of springs.

#### **Lakes and Ponds**

A large area of water surrounded by land is called a lake.

An area of water smaller than a lake is called a pond.

A pond may be natural or man-made.



#### **Rivers**

The rivers which get their water from rain are called rainfed rivers. They do

not flow throughout the year. They dry up during the summer season but have plenty of water in the rainy season.





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#### For Example

Krishna, Kaveri, Godavari, Narmada and Mahanadi river.

The rivers which get water from the melting ice and snow from high mountains are called **snowfed rivers**. They do not dry up in any season. For example Ganga, Yamuna and Brahmaputra river.

#### Oceans and Seas

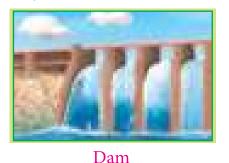
An ocean is a huge body of water. There are five oceans in the world. They are the Pacific, Atlantic, Indian, Arctic and Antarctic. A sea is also a large waterbody, but smaller than an ocean. There are many seas in the world.

The water present in the sea and ocean is salty and not fit for drinking.

Name the oceans and seas that surround the Indian subcontinent.

### **Storing Water**

Though rain is the major source of water, but it does not rain throughout the year. So we need to store and conserve water. This is done by building dams, canals and reservoirs.







Dam

A dam is a wall built across a river to hold back or block the flow of river water. This water is stored and used to generate electricity, irrigate fields and even for domestic purposes.

### Canal

A canal is a channel of water originating from a river and it is used to irrigate the fields.

#### Reservoir

A reservoir is an artificial or man-made lake build behind a dam to store the blocked water of the river. Later this stored water is used for various activities.

### **Condensation**

When water vapour cools down, it changes back into drops of water. This

process is called **condensation**. Have you ever observed drops of water on the surface of glass filled with cold drink? These drops are actually condensed water vapours. The process of evaporation and condensation are two very important factors which maintain the balance of water on the Earth. They regulate the water cycle or rain cycle. They cause the continuous movement of water from water bodies to air and then back to water bodies.

Water is a very precious natural resource. We must use water judiciously and prevent its wastage.

# **Evaporation**

There is a large amount of water found in the air in the



• Plants give off water vapour through tiny pores present on the surface of the leaves. This is called transpiration.

form of water vapour. When water gets heated, it

changes into steam or water vapour and goes into the air. This change of water into water vapour on heating is called **evaporation**.

There are many conditions in which the water evaporates faster. For example

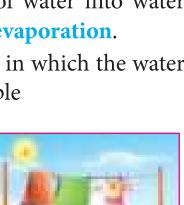
# 1. Water evaporates faster when it is left in open.

#### 2. Water evaporates faster when the air is dry.

You must have seen that a clothes take a long time to dry in the monsoon season because the air is full of moisture. In summer season, the air is dry so clothes dry quickly. The evaporation becomes faster on sunny days.



The water evaporates faster when it is spread on a large area. Therefore we spread our clothes to dry them. If not spread properly, they will take longer time to dry.



#### 🖢 Let Me Answer

Name the source that contains the maximum amount of water but we cannot use it. Can you tell the reason?

#### 4. Water evaporates faster when it is windy.

Pour water into two small containers. Keep one under the moving fan and the other in a room with no wind. We will see that water evaporates faster under the fan.

The water evaporates faster because wind helps in fast evaporation. So, your mother keeps wet clothes under the fan during rainy days.



#### 5. Water evaporates faster in high temperature.

High temperature makes the air hot and helps in faster evaporation of water.



- ★ All living things need water to survive.
- + The different sources of water are rain, lakes, ponds, rivers, seas and oceans.
- → Water is stored in dams, canals and reservoirs.
- + Evaporation and condensation are the two processes by which water changes its form.
- → Water evaporates when it is left in open.
- → Water evaporates faster in high temperature.

# Fact Finder

Water is the only substance on Earth that naturally exists in all three physical states: solid, liquid, and gas, at standard temperature and pressure.



<b>A.</b>	Tick (	$(\checkmark)$	the correct o	ption.
-----------	--------	----------------	---------------	--------

a.	Which	is the main sour	ce of water	?		
	River		Lake		Rain	
b.	Underg	ground water car	n be taken o	out by	_•	
	well		tubewell		both	

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	c.	Which is a channel of water originating from a river?
		Dam Canal Reservoir
	d.	Earth is also known as the
		Blue planet Green planet Red planet
<b>B.</b>	Fill	in the blanks.
	a.	All living things need to survive.
	b.	Water when it is left in open.
	c.	Water evaporates faster in high
	d.	Earth is known as
	e.	Rain is the main source of water on
C.	Wr	ite true or false.
	a.	Sea and ocean water is salty.
	b.	Atlantic ocean is the biggest ocean.
	c.	There are six oceans in the world.
	d.	Dam is the main source of water on earth.
	e.	Animals also need water to drink and bath.
<b>E.</b>	An	swer the following questions.
	a.	What are the different sources of water?
	b.	What is the difference between a lake and a pond?
	c.	What is an ocean?
	d.	What is evaporation?
	e.	What is condensation?



Make a poster using different colours on A-3 size sheet, on the topic "Save Water". Add a slogan to it as well as.

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# Revision Test Paper -I

# (Based on Chapters 1 to 4)

<b>A.</b>	T10	ck ( 🗸 ) the	e correct optic	on.			
	a.	Which	of these is an in	nternal orga	n?		
		Skin		Eyes		Lungs	
	b.	Alllivin	g things breatl	he through?			•
		Same or	gan 🔵	Nose		Different organs	$s \bigcirc$
	c.	Cardam	om is a?		•		
		Fruit		Oilseed		Spice	
В.	Fil	l in the b	lanks.				
	a.	Alllivin	g things need		_to survive	•	
	b.	Foodist	the source of _		<u> </u>		
	c.	Plants n	eed	to 1	make food.		
	d.	Ourlun	gs help us to _		•		
C.	Wr	rite true o	or false.				
	a.	Some ar	nimals reprodu	ace by laying	g eggs.		
	b.	There ar	ce six oceans ir	n the world.			
	c.	Animals	s also need wa	ter to drink	and bathe.		
D.	An	swer the	following qu	estions in s	hort.		
			e cereals?				
	b.	What is	winnowing?				
<b>E.</b>	An	swer the	following qu	estions.			
	a.	Whatis	the function o	flungs?			
	b.	What ar	e beverages?				

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# Shelter



- Do animals also have homes?
- Shelter of land animals

- Nests of birds
- Shelter of water animals

#### Do animals also have homes?

Animals also need a safe place to live. They need shelter to protect themselves from enemies, bad weather and to raise their young ones. Animals live in different kind of homes. Let us read about some types of animal homes.





Nest of a weaver bird



Nest of a woodpecker



Nest of a penguin

#### **Nests of Birds**

Birds live on trees. They make a nest to lay their eggs, keep them safe and warm.

Birds use dry grass, leaves, twigs, cotton and thread to make their nest. Different types of birds make different types of nests.

- A crow makes a nest with dried sticks.
- \* Flightless birds, such as ostrich, dig holes in the ground to hatch and

#### **TEACHER'S NOTES**

Help the students to understand the various types of shelters for animals. Tell them the names of these shelters. Use pictures to make understanding easy.

- protect their young ones.
- Weaver bird uses its beak to weave the nest using dry strips of palm leaves. The nest hangs down from the tree and bird makes its entrance from the lower end.
- A woodpecker makes holes in tree trunks to make its nest.
- \* A tailor bird stitches leaves together to make its nest.
- A penguin makes nest with stones.

#### **Shelter of Land Animals**

Animals that live on land are called terrestrial animals.

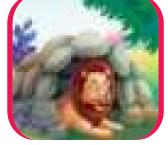
• A cuckoo does not make its nest. It lays eggs in the nests of other birds.

#### Let Me Answer

Which animals are called arboreal? Can you give examples?

#### **Wildanimals**









Monkey on tree

Cave

Burrow

Ant-hill

Wild animals are those that live in forests. They usually find natural shelters for themselves. Animals like monkeys and chimpanzees live on trees. They are known as **arboreal animals**. Lions and bears live in **caves** or **dens**. Some animals live under the ground like rabbits and mongoose make burrows. Snakes live in holes. Ants make **ant-hills** with tunnels of mud.









Shed

Kennel

Farms

Stable

#### **Domestic Animals**

We build shelters for domestic animals to protect them from heat, cold, rain and other animals.

Dogs are kept in kennels. Horses are kept in a stable. Pigs are kept in a sty. Sheep and goat are kept in farms. Cows are kept in a shed.

#### 🎥 Let Me Answer

The honey bee is associated with the beehive, then how will you associate a horse?

#### **Shelter of Water Animals**

Animals that live in water are called **aquatic animals**. Water is a home for many animals on the Earth. Some of the aquatic animals are fish, shark, dolphin, crab, seal, walrus, sea lions, etc.



Water world

Some of these like star fish and sea anemones live in shallow water while some animals like shrimps live on the sea bed. Water provides them with the oxygen and

• Whales and dolphins though live in water but come out of the surface of water to breathe.

### Shelter of Animals that live both on Land and Water

the food they

need to live.

Animals that can live both on land and in water are called **amphibians**. Some of the amphibians are frogs, toads, newts and salamanders. They have lungs to breathe on land, while in water they breathe through their skin.



Bees live in hives made of wax.



Wasps make their nests out of paper.



The world's oldest known shelters are believed to be caves used by early humans over 2 million years ago.

Crocodiles and alligators also live both on land and in water.

They are however **reptiles**. They breathe through their nose. They lay eggs on land.

Social insects like **honeybees** and **wasps** live in large groups called **colonies**.

#### **Nocturnal Animals**

Animals that are active at night are called nocturnal animals. They sleep during the day. Nocturnal animals like cockroach and kangaroo rats stay in cool underground places. They come out at night when the weather is cool. Nocturnal animals like owls, lemurs and cats have special eyes that see well in the dark.





# A Spider's Web

A spider spuns its web to trap its prey. The web is made up of a type of silk that comes out as liquid from the spider's stomach. It solidifies once it comes in contact with the air.

A spider's web



# Summary ?

- + Animals need a safe place to live.
- → Birds make nests to lay their eggs.
- → Animals that live on land are called terrestrial animals.
- → Monkeys and chimpanzees live on trees. They are known as arboreal animals.
- ★ Social animals live in colonies.
- → Animals that live in water are called aquatic animals.
- + Animals that live both on land and in water are called amphibians.
- → Nocturnal animals are active at night.
- → A spider spuns its web to trap its prey.



4.	Tio	$\operatorname{ck}(\checkmark)$ the correct opt	ion.			
	a.	A snake lives in a?				
		Hole	Ca	ve	Den	
	b.	A cow is kept in a?				
		Shed	Sty		Stable	
	c.	Ants live in a?				
		Ant hill 💮	Hiv	ve (	Cave	
	d.	Animals that live bo	th on land and i	in water are	called?	
		Amphibians 🔵	Rej	ptiles (	Mamı	nals
	e.	Which bird uses its b	eak to weave th	e nest using	g dry strips of	fpalm leaves?
		Tailor bird 💮	Kir	ngfisher 🤇	Weave	er bird 🔘
3.	Fil	l in the blanks.				
	a.	Animals that live on	land are called		<u> </u>	
	b.	Monkeys and	live on	L	·	
	c.	Animals that live bo	th on land and i	n water are	called	·
	d.	A spider spins its	to tr	rap its prey.		
	e.	Social insects like called		and	live	in large group
<b>C.</b>	Gi	ve two examples of ea	ch of the follow	ving.		
	a.	Terrestrial animals	:			
	b.	Arboreal animals	:			
	c.	Aquatic animals	:			
	А	Nocturnal animals	•			

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#### D. Answer the following questions in short.

- a. Do animals also have homes?
- b. Where does a lion live?
- c. What do you mean by colonies?
- d. Which bird makes a nest with dried sticks?

#### E. Answer the following questions.

- a. Why do animals need shelter?
- b. What material do birds use to make a nest?
- c. What are terrestrial animals?
- d. What are nocturnal animals?
- e. What are arboreal animals?



- A. Make a chart on houses of animals and hang it in the class.
- B. Go to your school library and collect information about the habitats of different animals.
- C. Make a "bird bath" and a "bird feeder" and hang it outside your home. Observe the birds that come there.







# **Our Clothes**



- Making of cloth
- Clothes we wear
- Dresses of women

- Dresses of men
- Modern dresses

We all wear clothes to protect our bodies from heat, cold, rain and insects. Good and clean clothes make us look smart.

• Early man covered himself with leaves and bark of trees. He also used animal skins to cover himself.

#### **Making of Cloth**

Clothes are made by different processes.

The process by which cloth is made on handlooms or powerlooms is called weaving.

**Knitting** is done on a knitting machine. At home, knitting needles are used for the same to knit woollens.

#### **Textiles**

A textile is a material that has been woven from yarn. Textiles are woven, printed and embroidered with different designs.

### **Dyeing**

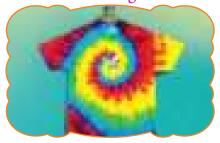
The fabrics can be dyed using natural or synthetic dyes. **Tie and dye** is a method used in Rajasthan to tie clothes and dye them. This method produces beautiful patterns. It is also called bandhani.



Weaving



**Knitting** 



Tie and dye



#### TEACHER'S NOTES

Tell the students about the various types of clothes that we wear in different seasons. Also, tell them the different wearing trends in the different parts of our country.



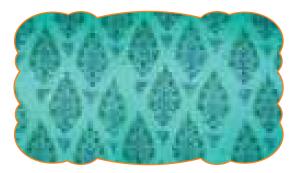
**Kalamkari** – Kalam means pen. It involves painting of design on fabrics with a special pen. Bihar is famous for this work.

#### Let Me Answer

What kinds of clothes are popular in Punjab and Maharashtra?

#### Kalamkari

**Block Printing** – This kind of printing is done by wooden blocks. Blocks are dipped into paint and pressed on the cloth to make beautiful patterns. Many bed sheets are decorated by block printing.



**Block Printing** 

Phulkari

Kantha work is an embroidery done on cloth using fine colourful threads and sometimes beads. West Bengal is famous for this work.

**Phulkari** is a kind of embroidery done on cloth using colourful silk threads. This work is done in Punjab.



Kantha Work

**Ikat** is a beautiful way of dyeing the yarn into different colours and using them to weave a cloth. Odisha is well known for this work.



Ikat



A person is wearing a shirt and mundu. Do you know which state that person belongs to?

#### Clothes we Wear

We wear different kinds of clothes. Clothes are worn according to the climate of a place, customs and traditions and the availability of cloth material.







Cotton clothes in summer

Woollen clothes in winter

Raincoat and gumboots in rainy season

#### **Dresses of Women**

We wear clothes to look attractive. We wear special clothes on special occasions. The most common dress for women in our country is a saree. But it is worn differently in different states.



Fact Finder

Denim fabric used in jeans was originally created for durable work pants, not as a fashion statement.

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#### **Dresses of Women in Different States**



Women wear salwarkameez in Punjab.



Himachali women wear phiran.



In Assam women wear mekhla-chadar.



In Rajasthan, women wear lehenga-choli.

# infobits.

#### **Dresses of Men**

Men also wear different types of clothes.

• Washing and ironing are the main factors of caring clothes.



In Kashmir, men wear phiran-salwar with a cap.



In Uttar Pradesh, men wear dhotikurta.



In Rajasthan, men wear churidar kurta, angarakha and a turban.



In Kerala, men wear a lungi called a mundu and shirt.

#### **Modern dresses**

Modern dresses for men and women include, skirt-top, jeans-t-shirt, pant- shirt, shirt-shorts, leggings-kurta and many more. These dresses are generally worn by people in big cities.



#### Modern dresses



- → We all wear clothes to protect our bodies from heat, cold, rain and insects.
- → We wear clothes to look attractive.
- → Kalamkari, Block printing, Phulkari, Ikat, Kantha work, etc. are different ways of making clothes beautiful.



A.	Tie	ck (✓) the correct options.	
	a.	Kalamkari is famous in?	
		Bengal Bihar Punjab	
	b.	Knitting is done on a?	•
		Knitting machine Weaving machine Sewing machine	
	c.	In Rajasthan, women wear with odhni.	
		Phiran Kameez Lehenga-choli	
В.	Fil	ll in the blanks.	
	a.	is a method used in Rajasthan to tie and dye clothes.	
	b.	Clothes are worn according to the of a place.	

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C	Clothes mak	ke us look sma	artand
•	Cibulcolliar	c us fook siff	$ar \iota ar \iota \iota$

d.	In Uttar Pradesh, men wear	

#### C. Write true or false.

- a. Knitting is done on a weaving machine.
- b. All clothes are made by the same process.
- c. Kalamkari—Kalam means pen.
- d. Ikat is famous in Bihar.
- e. Clothes are worn according to the climate.

#### D. Answer the following questions.

- a. What is Kantha work?
- b. What is Ikat?
- c. Why do we need clothes?
- d. What do men and women in India wear?
- e. What is knitting?



#### Identify the state these people belong to by looking at their clothes.





### Plant World

#### LEARNING OBJECTIVE

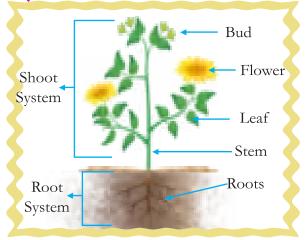
- The root system
- Importance of roots

- Types of roots
- The shoot system

Just like our body has many parts, in the same way plants have many parts. Stem, leaves, buds, flowers and fruits grow above the soil and form the **shoot system**. The part of the plant under the soil forms the **root system**.

#### The Root System

The roots look like long ropes spread out under the soil. They hold the plant firmly to the soil and help the plant to stand straight. They also help the plant to absorb water and minerals from the soil. Some roots store extra food and are eaten by us. For example, carrot, radish, beetroot etc. There are two types of roots—taproot and fibrous root.





• The roots of mangrove trees, grow upwards and come out of the soil to breathe.

#### **Taproot**

A taproot has a thick centre and grows down straight. Small hair like roots grow from the sides of a taproot. Most tall trees have an extremely well developed taproot system. Mustard, carrot, pea, radish, sunflower and bean plants have a taproot.



Tell the students about the different types of plants and their various parts. Explain to the students about the root and shoot systems of plants and their functions.

#### Fibrous Root

A fibrous root consists of many small roots which branch out from the base of the stem. It does not go very deep into the soil. Fibrous roots branch sideways holding soil particles together. Grass, wheat and rice plants have fibrous roots.



Fibrous root

### Let Me Answer If you are going to the marriage function then which types of clothes will you wear?

#### **Types of Roots**

#### 1. Aerial Roots

Big trees like banyan have numerous roots that grow downwards from the branches. They are called aerial roots. They center the soil and form secondary root or prop roots. These roots give support to the heavy branches of the banyan tree.



Aerial roots



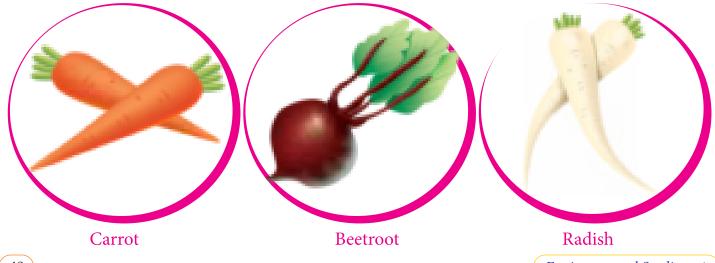
Pumpkin

#### **Water-storing Roots** 2.

Water-storing roots store water, making it easier for plants to survive long and in dry summer months. eg. Gourd and pumpkin.

#### **Food-storage Roots**

Plants like carrot, radish, beetroot and turnip store food for the plant in their roots. We eat these roots as vegetables.



#### 4. Propagating Roots

Such roots have buds close to the surface of the ground. These buds can grow into new independent plants as in the case of cherry and strawberry plants.

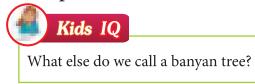


• During drought and famine, when there is scarcity of food, people dig out roots from the dry soil and eat them.

#### **Importance of Roots**

- Roots play a very important role in the growth of a plant. Roots hold the plant firmly to the soil. Thus, even when a strong wind blows, the plants do not get uprooted.
- \* Roots absorb water and minerals from the soil and send them to different parts of the plants.
- Heavy rain and a strong wind wash or blow away the topsoil. This is called soil erosion. Roots bind the soil and prevent soil erosion.

Many human activities adversely affect the roots of plants. Activities like construction cause lot of damage to the roots of the trees planted on the roadsides.



#### **The Shoot System**

The shoot system includes all those parts of a plant that grow above the ground. Stem, leaves and flowers form the shoot system of a plant. All these parts carry out different functions and help the plants in different ways.

#### The Stem

The stem transports water, minerals and food to different parts of a plant. The stem keeps the plant straight and bear leaves, flowers and fruits.

#### Leaves

Leaves are called the food factories of plants. They prepare the food for the plant in the presence of sunlight, air, water and chlorophyll. This process is called **photosynthesis**. We eat leaves of many plants such as the spinach, lettuce, cabbage etc. Green leafy vegetables are good for our health.



- + A plant has many parts.
- + Stem, leaves, buds, flowers and fruits grow above the soil and form the shoot system.
- + Roots grow below the soil and form the root system.
- + There are two types of roots-taproot and fibrous root.
- + Roots play a very important role in the growth of the plant.

### Fact Finder

Bamboo is one of the fastest-growing plants, capable of growing up to 3 feet in a single day.



A.	Tic	ck (✓) the correct option.			
	a.	Which of these has aeria	lroots?		
		Beetroot	Pumpkin	Banyan	
	b.	Which of these has a fibi	ous root?		
		Bean	Grass	Turnip	
	c.	Which of these has a tap	root system?		~
		Pea	Carrot	Both	
	d.	It stores food as a root.	,		
		Carrot	Tomato	Leaves	
В.	Fil	l in the blanks with suital	ole words given belov	V.	
	a.	Thelook	like long ropes sprea	d out under the soil.	
	b.	are called	I the food factories of	plants.	
	c.	A has a t	nick centre and grows	s down straight.	
	d.	Roots bind the soil and	prevent		
	e.	The keep			
C.	An	swer the following quest	ion in short.		
	a.	What is root system?			
	b.	Who prepares the food	for the plants?		_

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	c.	What is soil erosion?
	d.	What is photosynthesis?
	e.	What are aerial roots?
D.	Ans	swer the following questions.
	a.	What is shoot system?
	b.	What is a taproot?
	c.	What is a fibrous root?
	d.	What are aerial roots?
	e.	What are the functions of a stem?
	f.	What are the functions of roots?



Keep potted plants in the class. Water them when the soil dries up. Talk about the varying amount of water that different plants need.

1.



Name four plants that need more water.

\_\_\_\_

2.

3. \_\_\_\_\_

4.



## **Animal World**



- Group of animals
- Friendly animals
- Shy animals
- Give and take relationship \* Ears of animals
- Hair and fur

Animals also have families. They are social in nature and move around in groups. They do so to find food and water, protect themselves from enemies and bring up their young ones. They feel safe when they are together.

### **Groups of Animals**

Animals that move in groups or herds have a leader who guides the other group members. The leader warns the other members about danger. Cows, zebras, horses, elephants, buffaloes and deer live in groups. Their group is called a herd.





A herd of buffaloes

A herd of deer

A herd of elephants

Let Me Answer

A group of chimpanzees, gorillas or monkeys is called a band.

A group of lions is called a **pride**.



Name any three animals from which we obtain food items.

Tell the students about the various types of animals and their features. Also, tell how these animals are important to us. Give them various examples and make learning easy.

A pride consists of two or more adult lions, several lionesses and their cubs.

Insects such as ants, honey bees and termites live together in groups called **colonies**. The colony of a honey bee has one queen bee, about a hundred **drones** (males) and more than thousand **worker** bees. The dog family that includes wolves, foxes, jackals and coyotes move in **packs**.



Colony of ants

infobits

• A band of chimpanzees has around 15 to 80 members.

Pack of wolves



A group of birds

### **Friendly Animals**

Some animals are friendly and allow us to go near them or feed them. If we give them food, they will immediately come forward to eat it.

Cats, cows and dogs are generally friendly by nature. Humans have tamed







many friendly animals. Most of the farm animals like goats, hens and ducks are friendly with us.

**Dolphins** are friendly sea creatures. They live in groups. They learn to play tricks easily and entertain people. Shows of dolphin performing tricks are

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#### very popular abroad.

Talk about any animal which you have made friends with.





Playful kittens

Babies of animals enjoy playing. Kittens love to have a friendly fight.

Sometimes they roll over or pull each other.

### **Shy Animals**

Some animals are very shy by nature. They hide or run away when they see people coming near them. These animals are not familiar with human beings and may sometimes harm them too. Rabbits, lizards, squirrels, rats, deer, most of the birds and insects are shy.



Lion is associated with pride then how are the chimpanzees associated?

Tortoise and snails go into their shells if we touch them.

#### Give-and-Take Relationship

Some species of animals share special relationship with animals of other species. They help each other.

- ❖ Birds and monkeys make noise to alert other animals, if lions, tigers and leopards are coming near.
- Penguins huddle together to keep themselves and their babies warm.
- ❖ White birds called cattle egrets live near large animals such as cows and buffaloes, elephants and deer. They do so because they eat the insects that

associate with the cattle. Egrets often perch on the backs of large animals. If the birds sense any danger, they fly away. This is a warning for the deer or cattle.

**Egyptian Plover**, a bird that feeds on bits of decaying meat stuck in the teeth of crocodile. The plover gets its food and crocodile gets its teeth cleaned.



Cattle-egret



A crocodile and Egyptian plover

- Oxpeckers are small birds that ride on large animals such as oxen, rhinos and giraffes and peck the insects off their bodies.
- A remora is a small fish which sticks to a shark. It eats small creatures that live on the shark's body.



Oxpeckers and giraffe



Remora fish and shark

#### **Ears of Animals**

All animals use their ears to hear sound. They may differ in shapes and sizes.

Amongst the animals that have ears, there are some with ears that are visible, called **external ears** and some whose ears are not visible.

Mammals, including human beings, have external ears, one on each side of the head.



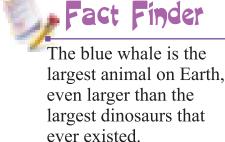
• Although hippopotamus is a big animal, it has small ears.

An elephant has big external ears. It uses them to hear and to fan itself.

Donkeys, rabbits and giraffes also have big ears.

We cannot see the ears of some animals. These animals have internal ears. Birds have tiny holes on both sides of their head. These are covered with feathers. Snakes and lizards do not have ears. They feel vibrations on the ground to know about the presence of other animals.







Big ears of elephant

## infobits.

• It seems that the snake is dancing to the tune of the snake charmer. Actually, it just follows the movement of snake charmer's been!

#### Hair and Fur

Just as we have skin covering our body, in the same way, animals have skin. There are hair on the skin. Some animals have long hair on their skin and some animals have small. Animals like yak, musk oxen and bears that live in very cold areas have long hairs which keep them warm. Animals like cows and buffaloes have short hair.

You will observe that the animals which have external ears also have body hair. Such animals are called mammals.

Animals like porcupine and hedgehog have needle like hair on their body. It helps them to protect themselves from their enemies.







Yak

The different design on an animal's skin are due to the presence of different coloured hair. A leopard has spots on its body.

Tigers have striped coat.









Porcupine

Hedgehog

Leopard

Tiger



- → Animals that live in groups or herds have a leader who guides the other group members.
- + Some animals are shy and some are friendly.
- → Many animals help each other.
- + Animals like elephants, donkeys, rabbits and giraffes have external ears. Birds have internal ears.
- → Mammals are animals that have external ears and body hair.



#### A. Tick $(\checkmark)$ the correct option.

a.	A group of deer	is called a				
	Pride		Herd		Pack	
b.	Which of these	is a shy an	imal?	Ť		
	Tiger		Cat		Rabbit	
c.	Which of these	sticks to a	shark?	· ·		
	Remora		Oxpecker		Egyptian plove	er 🦳

	d.	An animal that lives in a colony is?								
		Ant		Dolphin		Cow				
B.	Fill	l in the blanks.								
	a.	aoften perch on the backs of large animals.								
	b.	The colony of a	honey bee l	nas	queen.					
	c.	An	has big	external ears.						
	d.	Birds have tiny		on both side	es of their l	head.				
C.	An	swer the follow	ing questi	ons in short.						
	a.	What do you r	nean by hei	rd?						
	b.	Write the nam	Write the names of those animals that are friendly by nature.							
c. Write the names of animals that have big ears.										
	d.	What are man	nmals?							
D.	An	swer the follow	ing questi	ons.						
	a.	Why do animals live in groups?								
	b.	What are friendly animals?								
	c.	What are shy a	nimals?							
	d.	What relations	ship does a	crocodile and a	an Egyptia	an plover has?				

## Revision Test Paper -II

(Based on Chapters 5 to 8)

A.	Tic	ck ( $\checkmark$ ) the correct o	ption.					
	a.	A snake lives in a?						
		Hole	Cave	) Den				
	b.	Which of these has	s aerial roots?	, and the second		•		
		Beetroot	Pumpkin	Banya	n			
	c.	An animal that live	es in a colony is?	, and the second		~		
		Ant	Dolphin	Cow				
В.	Fil	l in the blanks.						
	a.	Birds have tiny	or	both sides of th	eir head.			
	b.	Roots bind the soil	•					
	c.	Clothes are worn a	•		<del>-</del>			
	d.	Animals that live of	on land are called_		_•			
C.	Answer the following questions in short.							
	a.	What do you mear	n by colonies?					
	b.	What is soil erosio	n?					
	c.	Do animals also ha	ave homes?					
D.	An	aswer the following	questions.					
	a.	What are nocturnal animals?						
	b.	What do men and	women in India w	ear?				
	c.	What is a tap root?	,					
	d.	Why do animals li	ve in groups?					

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### **Model Test Paper-I**

	(B	ased on Chapter 1 to 8	<b>3)</b>					
A.	Tick (✓) the correct opt	ion.						
	a. Which of these is an in	nternal organ?						
	Skin	<b>Eyes</b>	Lungs					
	b. Which of these is a dry	y fruit?						
	Apple	Almond	Cake					
	c. Which of these is not a	a spice?						
	Bay leaf	Cinnamon	Coffee					
	d. A snake lives in a?	~						
	Hole	Cave	) Den					
	e. A cow is kept in a?							
	Shed	Sty	Stable					
В.	Fill in the blanks.							
	a. Ourhe	lps us to think .						
	b. Animals that live on land are called							
	c. Monkeys and	live on	·					
	d. Animals that live both on land and in water are called							
	e. A spider spins its	to trap its pro	ey.					
C.	Match the columns.							
	a. The heart	i. Almond						
	b. Plants	ii. Shy anim	al					
	c. Dry Fruits	iii. Stomata						

iv.

v.

Pumps blood.

Shed

d. Cow

e. Squirrels

TO .	E A	T .	4	4		C 1	
<b>D.</b> 1	M	/1°1	te.	tru	Or	tal	SA
<b>D</b> .	V 1		u	uu		Lui	

- a. Stems and roots of some plants also have stomata.
- b. Oil is extrated from special seeds called oil seeds.
- c. Sea and ocean water is salty.
- d. Rabbits lives in colonies.
- e. Knitting is done on weaving machine.

#### E. Answer the following questions.

- a. What do you know about internal organs?
- b. Why do we need food?
- c. Why do animals need shelter?
- d. What material do birds use to make a nest?
- F. Go to your school library and collect information about the habits of different animals.
- G. Identify the state these people belong to by looking at their clothes.



**Unit-5: Recreation** 



## **Our Festivals**



- Religious festivals
- Harvest festivals

National festivals

India is a country of festivals. We all celebrate a number of festivals. We buy new clothes, or enjoy at fairs and fetes. We eat ice-cream and other special dishes made for the occasion. We can categorise festivals in the following groups:

- 1. Religious festivals
- 2. National festivals
- 3. Harvest festivals

### Let Me Answer

Do you know about the National festivals? Give examples.

### Fact Finder

"Halloween" originated from the Celtic festival of Samhain, marking the end of the harvest season and the beginning of winter.

#### 1. Religious Festivals

Festivals which are celebrated according to religion are called religious festivals. India is a land of various religions. People of various communities celebrate their festivals. A few important religious festivals are Dussehra, Deepawali, Holi, Eid-Ul-Fitr, Christmas and Gurupurab.

### Deepawali and Dussehra

Dussehra or Vijayadashmi is celebrated on the dashami tithi of Ashwini Shukla Paksha. On this day lord Rama returned to Ayodhya after killing Rawan. On this day, effigies of Rawan are burnt. This festival reminds us of victory of truth over evil.



#### TEACHER'S NOTES.

Tell the students about the various types of festivals celebrated in our society. Tell them about the importance of these festivals.

**Deepawali** is the festival of lights. It is the biggest festival of Hindus. Children celebrate this festival by playing with fireworks and crackers. People worship Lakshmi, the goddess of wealth and lord Ganesha. This day comes twenty days after Dussehra.



Houses are decorated with earthen lamps, candles and electric bulbs.



#### **Eid-Ul-Fitr**

Ramzan is the very important month for the Muslims. They keep fast during this month. Eid-Ul-Fitr comes after the month of Ramzan. They wear new clothes, after Namaaz and say Eid Mubarak by embracing one-another. They also prepare a sweet dish called Sewaian.

#### **Christmas**

Christmas is the biggest festival of Christians. Christmas is the birthday of Jesus Christ. It is celebrated on 25th December. Christians make and decorate Christmas tree.





#### Gurpurab

Gurpurab is celebrated on the birthday of Guru Nanak Dev. The Sikhs decorate Gurudwaras and listen to Gurubani.



Name the festival that is celebrated during the rainy season.

#### Durga Puja

Durga is the goddess of Shakti, that is power. This festival is mainly celebrated in West Bengal during Navratra. They make beautiful earthen statues of the Goddess Durga and worship them. Hindus keep fast during Navratra.



### **National Festivals**

National festivals are celebrated all over the country. National festivals are Independence Day, Republic Day and Gandhi Jayanti.

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#### **Independence Day**

India became free on 15th August, 1947. Before this, Indians were ruled by the Britishers. From this date India became independent. Every year on this day the



Prime Minister hoists the Tricolour flag on the Red Fort in Delhi.

#### Republic Day

India became a Republic on 26th January, 1950. The word Republic means country governed by its own laws.



On this day, various Jhankie (tableaux) are displayed, cultural programmes and

parade are held at India gate. Main function is held at Kartavya Path in New Delhi.

The President takes the salute of the parade.

#### Gandhi Jayanti

Mahatma Gandhi, the Father of our nation, was born on 2nd October, 1869. So, on 2nd October Gandhi Jayanti is celebrated every year. The main function is held at Rajghat, the Samadhi of Bapu.

#### **Harvest Festivals**

Festivals which are celebrated at the time of harvesting of crops are known as harvest festivals. Few harvest festivals which are important are as follows:



#### Holi

Holi is mainly celebrated in North India. This is also one of the big festivals of India. People gather at a place, they sing and dance and beat the drums. People throw coloured water at each other and rub Gulal.

#### **Pongal**

Pongal is celebrated in the month of January, at the time of rice harvesting in Tamil Nadu. On this festival, cows are decorated and worshipped. This festival is celebrated for three days.

#### **Onam**

In the month of August or September, this harvest festival is celebrated in Kerala. A special game of snake boat racing is held. Elephants are decorated on this day.



#### Baisakhi

This festival is celebrated in Punjab. It is celebrated in the month of April. Men perform Bhangra and girls perform Gidda.



- + People of various communities celebrate their festivals.
- → India is a country of festivals.
- → National festivals are celebrated all over the country.
- + Harvest festivals are celebrated at the time of harvesting of crops.



A.	Tic	ck (✓) the correc	t option.					
	a.		is celebr	ated in Punjab.				
		Baisakhi		Onam			Pongal	
	b.		_ is the fe	stival of Christi	ans.			
		Gurpurab		Christmas			Holi	
	c.		_ is celebr	ated on the bir	thday of G	uru	ı Nanak.	
		Gurpurab		Holi			Dussehra	
	d.	Independence I	Day is cele	ebrated on?				
		15th August		26th January			None of these	
<b>B.</b>	Fil	l in the blanks.	, and the second					
	a.	Deepawali is a		festival.				
	b.	Republic Day is	a	festival.				
	c.	Durga Puja is c	elebrated	in	•			
	d.	Onam is celebra	ated in	•				
C.	Wr	ite true or false.						
	1.	Ramzan is very	importar	nt month for the	e Muslims.			
	2.	Guru Granth Sa	whib is the	e holy book of t	he Sikhs.			

	3.	Onam is celebrated in Tamil Nadu.
	4.	Baisakhi is celebrated in April.
D.	Ans	swer the following questions.
	a.	Which national festival is celebrated on 26th January?
	b.	Which festival is known as festival of colours?
	c.	Which festival is known as festival of lights?
	d.	On which date Christmas is celebrated?



- A. Paste the pictures of different festivals in your scrap file.
- B. Make a list of religious festivals here.



## **Transport System**



Different means of transport

Transport or transportation is the movement of people, animals and goods from one location to another. Transport has played an important role in all most everyone's lives. Travelling and carrying goods from one place to another is called transportation. There are various means of transport. If we want to go to a nearby place, then we use cycle, rickshaw, motorcycle, scooter etc. Suppose we want to go to a far away place, we use car, bus, train etc. Suppose we want to go far away to another country, in a short period of time, we use aeroplane.

#### **Different Means of Transport**

Different means of transport are broadly classified into three main groups:

- 1. Land Transport
- 2. Water Transport
- 3. Air Transport

#### **Land Transport**

Land transport refers to vehicles that are move on land. Land transport can be further divided into three groups:

- (a) Transport on Kutcha Roads: Animals like ox and the carts driven by the camel, bullock, buffalo, mule, ass etc., and cycles are the means of transport on kutcha roads. Bicycle and bullock carts are the common types of vehicles in the villages.
- **(b) Transport on Pucca Roads**: The cycle, cyclerickshaw, scooter, auto-rickshaw, car, jeep, bus and truck are the means of transport on pucca or metalled roads. These means are very common in towns and cities. India has the largest network of roadways.





#### TEACHER'S NOTES

Tell the students about the various types of transport systems. Use the pictures and examples and explain to them the benefits of the transport system.







Goods Train Train Metro Train

(c) Transport on Rail-tracks: Trains run on rail-tracks. There are separate trains for carrying passengers and goods. The trains for carrying various types of goods are called goods trains.

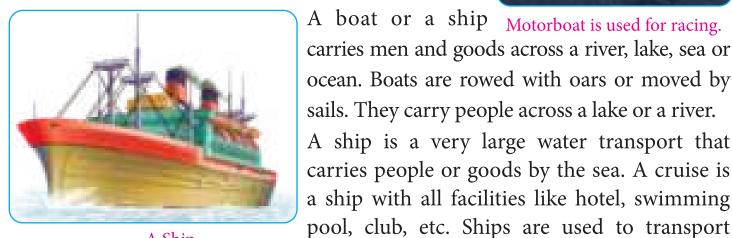
Metro trains are popular means of transport in Metropolitan cities.

#### Let Me Answer

Give any two examples of means of air transport.



#### **Water Transport**



A Ship

A boat or a ship Motorboat is used for racing. carries men and goods across a river, lake, sea or ocean. Boats are rowed with oars or moved by sails. They carry people across a lake or a river. A ship is a very large water transport that carries people or goods by the sea. A cruise is a ship with all facilities like hotel, swimming



A yacht carries a few people for pleasure trips.



A sailboat is used for pleasure trip or racing.



A ferry carries people, vehicles and goods as a regular service.

huge quantities of grains and oil to other countries.

A liner is a very large ship that can carry thousands of passengers at a time.

#### **Air Transport**

Vehicles that fly in air are called air transport. It is the fastest means of transport. Aeroplanes and helicopters are the fastest means of air transport.

A helicopter can carry only 4 to 6 people at one time. An aeroplane can carry four to five hundred people at a time. These means of transport are used when we have to go to far away places in less time or to another country. It is an expensive means of transport.

Rocket or spacecraft is used to go into the space.



The world's first commercial steam-powered locomotive was built in 1804 by Richard Trevithick.



• In India, there are six international airports.







Aeroplane **Summary** 

Helicopter

Rocket

- + Travelling and carrying goods from one place to another is called transportation.
- → Boats are rowed with oars or moved by sails.
- + A liner is a very large ship that can carry thousands of passengers at a time.



#### A. Tick $(\checkmark)$ the correct option.

a. A \_\_\_\_\_\_ is a very large water transport that carries people or goods by the sea.

Boat



Ship





	b.	o is used to go into space.								
		Rocket		Aeroplan	e	Helicopter				
	c.	India has the largest network of								
		airways		roadways		ailways railways				
В.	Fil	ll in the blanks.								
	a.	Metro trains are used in		<u> </u> .						
	b.	is the fastest mode of transport.								
	c.	A carries a few people for pleasure trips.								
	d.	Bullock cart is a common means of transport in the								
C.	Wr	Write true or false.								
	a.	It is difficult to run railway	lir	nes on hills o	O1	r mountains.				
	b.	Metro trains run in small to	ЭW	ns also.						
	c.	Air transport is a cheap means of transport.								
	d.	There are three means of transport.								
D.	Ma	atch the columns.								
	a.	Train		(i)		Air transport				
	b.	Aeroplane		(ii)		Water transport				
	c.	Ship		(iii)		Go into space				
	d	Rockets		(iv)		Moves on railway track				
E.	An	Answer the following questions.								
	a.	Which are the main means of water transport?								
	b.	In how many groups can transport be categorised?								
	c.	Distinguish between water transport and land transport .								
	d.	d. What are the means of air transport?								
							—			



Collect pictures of water, rail and air transport and paste them in your work book.

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## Safety Rules



#### LEARNING OBJECTIVE

- Safety on the road
- Safety while swimming
- Safety while travelling in a vehicle
- First-Aid

Stop, look and listen
Before you cross the street.
First use your eyes and ears,
Then use your feet!!!



#### Let Me Answer

What is the use of zebra crossing on the road?

Safety habits keep us safe from accidents.

To be careful, we need to follow some safety rules:



Never touch electric wires with wet hands.



Do not go close to the gas stove.



Do not play with match-sticks.



Do not take any medicine without asking your elders.



Do not leave your toys and other things on the floor.



Do not play with sharp objects like knife, blade and scissors.

#### TEACHER'S NOTES

Tell the students about the various types of safety rules they should follow. Also, tell them about first aid to give immediate relief to an injured person.

#### Safety on the Road

- Always walk on the footpath.
- Never play on the road.
- Cross the road at zebra-crossing.
- Follow the traffic signals on the road. Look for the red signal before crossing. If there is no zebra-crossing on signal, look carefully on both sides before crossing.







Fact Finder

"Wearing seat belts reduces the risk of death in a car crash by about 45% and cuts the risk of serious injury by about 50%."

## \_infobits

• Traffic lights and traffic police ensure smooth traffic on the roads.

#### Safety While Travelling in a Vehicle



Do not get in or off a moving bus.



Do not talk to the driver. He might get disturbed.



Do not take any part of your body out of the window.



Make a queue to wait for the bus.

#### Safety while Swimming

Do not go alone for swimming.

Use a swimming tube, if you are a learner.

#### First-Aid

The immediate treatment given to an injured person before a doctor's arrival is called **first-aid**.







What are the things that we should keep in the first aid box? Give their names and uses.



- + Safety habits keep us safe from accidents.
- + To be careful, we need to follow some safety rules.

We should cross the road at \_\_\_\_\_.

+ The immediate treatment given to an injured person before a doctor's arrival is called first-aid



<b>A.</b>	Tick ( 🗸 )	) the correct o	ption.
-----------	------------	-----------------	--------

a.	We should not touch electrical fittings with?					
	Wet hands		Dryhands		Both	
b.	We should cross the road at?					
	Cowcrossing		Zebra crossing		Horse crossing	
c.	What is the immediate treatment given to a person called?					
	First-aid		Second-aid		Third-aid	
Fill in the blanks.						
a.	Safety habits keep us safe from					

B.

b.

- c. We should follow the \_\_\_\_\_ on the road.
- d. We should make a \_\_\_\_\_ to wait for the bus.

#### C. Answer the following questions.

- A. What are safety rules?
- b. Which safety rules should be followed at home?
- c. Which safety rules should be followed on the road?



#### Make a first-aid box. Keep these things in it.

Scissors

Dettol

Band-aid

Cotton

Bandage

Antiseptic cream





# Means of Communication



- Personal or Postal Communication
- Electronic communication

- Journey of a letter
- Mass Communication

Telegram



The sending and receiving of message and information is called communication. Most people communicate orally (by talking), by listening and writing.

In olden days, people used to broadcast any message or information by beating drums and sending smoke signals. Later, pigeons were used to send and receive messages. Messengers were sent on foot or on horses to

deliver messages which took a long time. Soon faster means of communication developed. Let us read about some common means of communication.

#### **Personal or Postal Communication**

When one person communicates with another person, it is called personal communication. The postal system is one of the oldest, cheapest and most widely used system of communication. Postcards, inland letters and letters in stamped envelopes are means of postal communication.

All these are available at the post-office. We need to write the

Letter box



address and Postal Index Number (PIN) of the person to whom we are going to send letter on the cover. By correct address the letter reaches its destination.

To send a letter to someone who lives outside India. we use an aerogramme or an airmail. Urgent letters could be sent through speed post or courier.

An Aerogramme

#### TEACHER'S NOTES.

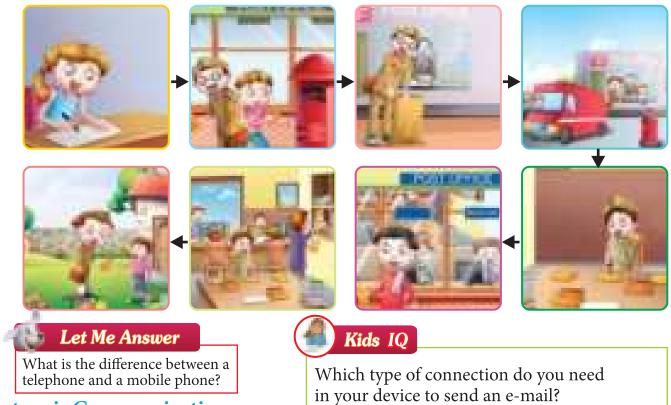
Tell the students about the various means and the importance of communication. Also, tell them about the old methods of communication that people use in past.

Parcels and moneyorders can also be sent by post.

#### Journey of a Letter

Letters take two or more days to reach their destination depending upon the distance they have to be sent. Steps to send a letter are as follows:

- We write the letter on plain paper and put it in a stamped envelope.
- Then, we write the address of the person to whom we want to send the letter.
- Now drop the letter in a letter box.
- The postman collects letters from the letter-box.
- He takes the letters to the post-office where they are sorted according to the states and cities.
- Letters are put in various bags and sent to specific states and places by trains and aeroplanes.
- Letters are again sorted in the city post office according to the areas. They are sent to the various area post offices in the city by a mail van.
- The postman delivers the letters to the address mentioned.



#### **Electronic Communication**

A telephone is the quickest and most convenient means of communication. Today telephone has become an important part of every home, office and school. We can

speak to the person just by dialling the number sitting at any place. Telephone networks are spread all over the world.

Now-a-days, mobile phones have become very popular. We can carry them wherever we go.

An e-mail is the fastest way of sending written messages and photographs. A

computer is used to send an e-mail. Computers all over the world are linked through the Internet. The e-mail stands for electronic

Telephone

mail. The messages by e-mail can be received within a few seconds.

#### **Mass Communication**

Mobile phone When we communicate or broadcast a message to a large number of people at a time, then it is called mass communication. For example, Newspaper,



Internet

Radio, Television, Magazine and Internet are the means of mass communication.

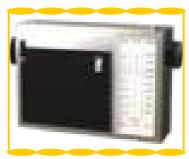


• You can communicate to a person who is sitting in foreign face-to-face by video-chatting or video-conferencing.



E-mail

The first successful transatlantic telegraph cable was completed in 1866, revolutionising long-distance communication.



Radio is an audio means of mass communication.



visual means of mass communication.



Television is an audio We can get information about anything in the world on the Internet.



Newspapers and magazines are a written way of mass communication.



- The sending and receiving of message and information is called communication.
- When one person communicates with another person it is called personal communication.
- To send a letter to someone who lives outside India, we use an aerogramme.
- A telephone is the quickest and most convenient means of communication.
- An e-mail is the fastest way of sending written messages and photographs.



A.	Ti	Γick (✓) the correct option.							
	a.	a. In olden days, which bird was used to send and receive message?							
		Sparrow Parrot Pigeon							
	b.	b. Which of these is an audio-visual means of mass-communication?							
		Radio Television Newspaper							
	c.	c. Which is the fastest way to send written messages?							
		Letter Courier E-mail							
	d. Which means of communication are being used mostly?								
		Telephone Mobile phone Internet	<b>\</b>						
В.	Fill in the blanks.								
	a.	is the act of sending or receiving messages.							
	b.	Thesystem is the oldest and cheapest system of communication							
	c.	is the fastest way to send written messages.							
	d.	is the most convenient means of communication.							
C.	Write true or false.								
	a.	. In olden days, pigeons were used to send messages.							
	b.	b. Sending messages by post takes more than one month time.							

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- c. To send a letter no need to write PIN code with address.
- d. E-mail stands for electronic mail.

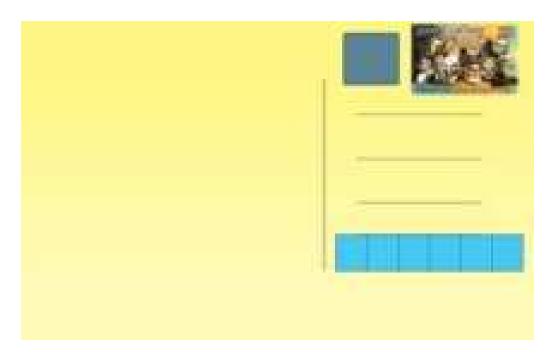
#### D. Answer the following questions.

- a. What do you understand by the word communication?
- b. Write the steps involved in the journey of a letter.
- c. What is internet used for?
- d. What is mass communication?



Here is a postcard. Write your complete address on it.





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## Revision Test Paper - III

(Based on Chapters 9 to 12)

A.	Tick (✓) the correct option.						
	a.	is celebrated in Punjab.					
		Baisakhi	Onam	Pongal			
	b.	is used	l to go into the space.				
		Rocket	Aeroplane	Helicopter			
	c.	We should not t	ouch electrical fittings	with?			
		Wet hands	Dry hands	O Both			
В.	Fil	ll in the blanks.					
	a.	We should cross the road at					
	b.	is the fastest mode of transport.					
	c.	Metro trains are used in					
	d.	is the most convenient means of communication.					
C.	Wı	rite true or false.					
	a.	E-mail stands fo	or electronic mail.				
	b.	Air transport is	a cheap means of trans	port.			
D.	Answer the following questions.						
	a.	What is mass co	mmunication?				
	b.	What are safety rules?					
	c.	Which are the main means of water transport?					
	d.	Which festival i	s known as festival of li	ghts?			

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## **Natural Resources**



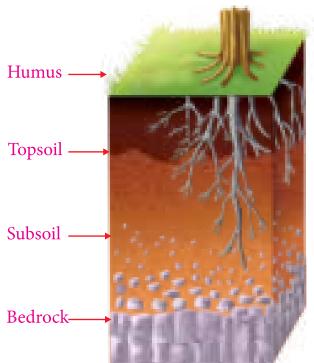
### EARNING OBJECTIVE

- Types of natural resources
- Rocks

- Types of soil
- Minerals

### **Types of Natural Resources**

Water, air, soil, forest, wildlife and minerals are **natural resources**. Natural resources are Humus valuable gifts of nature for us. They support life on Earth. Plants grow in soil with the help of air, water, sunlight and minerals. Topsoil Without plants, life is not possible because we get our food from plants. So, all these natural resources are valuable for us.



### Soil

Soil is the loose top layer of Earth on which the plants grow. Soil is formed when rocks break up, plants and animals start decaying.

This process takes millions of years by the action of water, wind and sunlight on the surface of the Earth. Soil contains tiny particles of gravel, sand, clay, moisture and humus. Humus is made up of rotten leaves and decayed bodies of animals and plants. Humus is necessary for growth of plants. Soil is found in layers. Nothing on Earth can be grown without soil.

All our agricultural crops like wheat, rice, cotton, sugarcane, coffee, tea are grown in different types of soils. There are number of micro-organisms like fungi and bacteria live in soil. Ants, beetles, millipedes, scorpions, earthworms, etc. live in soil. Trees and other plants also grow in soil.



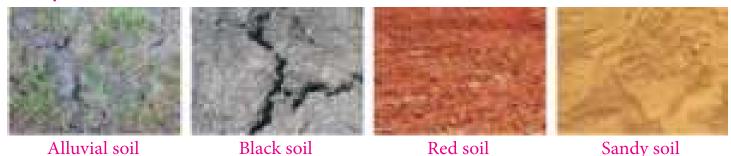
#### TEACHER'S NOTES.

Tell the students about natural resources like soil, rocks, and minerals. Tell them about the uses of these things in our daily life.

### **Types of Soil**

Types of soil depend upon a combination of three particles: sand, silt and clay. Sand is the largest particle in the soil. It does not hold much water and nutrients. Silt is very smooth and powdery. Clay is the smallest particle. Clay is smooth when dry and sticky when wet. Clay can hold a lot of nutrients but it does not let air and water pass through it.

There are mainly four types of soils – alluvial soil, black soil, red soil and sandy soil.



Soil contains sand, silt and clay in different proportions. Some kind of soils have high sand content while some other kind has more clay content.

#### Rocks

The Earth's crust is made up of rocks. Coal comes from certain rocks. Rocks contain metals such as gold and silver.

**Granite** is a hard rock used to build roads and buildings. Clay is a soft rock which is used for making bricks and pottery. Glass is also made from rocks. Sand and limestone are melted together to make glass when the glass is hot, it is very soft and can be stretched and shaped into different objects.

There are mainly three kinds of rocks- Igneous rocks, Sedimentary rocks and Metamorphic rocks.

### **Igneous Rocks**

Igneous rocks are formed by the cooling and solidification of molten rocks. When a volcano erupts, molten rock called magma is ejected onto the Earth's

surface. Crystallization, a process in which the magma cools and solidifies forming mineral crystals are called igneous rocks. Granite, Quartz and Basalt are igneous rocks.







Granite

Quartz

Basalt







Limestone

### **Sedimentary Rocks**

Sedimentary rocks are formed by compaction of sediments. Layers of mud, sand or sea shells are built up over a long time. The layers get squeezed

and stick together and make new rocks. Sandstone, Gypsum and Limestone are examples of sedimentary rocks.

### **Metamorphic Rocks**

Rocks that are changed into a different one by great heat or pressure. When rocks are under heat and pressure for a few million years, they turn into a new kind of rock. Marble forms in this way when soft rocks like limestone get squeezed and heated for a long time.

### **Minerals**

Minerals are substances that are found naturally under the earth. They occur along with rocks. Rocks contain different types of minerals. Minerals are found in oceans. Digging out minerals from the Earth is called **Mining**.

Minerals which contain metals



Marble



How do we obtain gold and silver?



Deep Mining

are called **Ores**. Iron, copper, zinc, manganese, silver, gold are metals. Metals are used for making machine parts, utensils, pillars etc. Precious metals like gold, silver are used to make jewellery.

Ores contain several impurities. They are mixed, refined and only then metal is extracted. This process of mining and refining ores is called **Metallurgy**.

#### **Fossil Fuels**

Millions years ago, plants and animals died and were buried deep under the soil. Fossils are the hardened remains of plants and animals. Fossils of animals and plants from both land and sea have been found. Dead remains of plants and animals remained lying on the ground, covered with sand, mud or water. Over a long time, minerals seeped into the hard parts and slowly turned them into rocks.

Coal, Petroleum and Natural gas are called fossil fuels.



Fossils

### Coal

Coal is actually the fossilised remains of plants. Coal is used as a fuel for heating, generating electricity and running steam engines. Coal gas and coke are produced from coal.

Mines of coal in India are in Bihar, Orissa and Madhya Pradesh.

### **Petroleum**

Petroleum is a dark oily liquid found in Earth. Petroleum is called mineral oil. This is formed



Coal-mine

from the remains of both land and sea creatures. It is also called rock oil as it is trapped between the rocks, deep inside the Earth.

Wells are drilled deep into the ground until they hit these rocks. The oil is then pumped to the surface through pipes and taken to refineries to separate various constituents of it.

Petrol, diesel, kerosene, LPG, wax, lubricant oil, etc. are derived from petroleum. Petrol and diesel are used as fuel in vehicles. Kerosene and LPG are used as fuel for cooking. LPG is also used as fuel in vehicles.

In India, there are petroleum refineries in Mumbai, Chennai, Cochin, Vishakhapatnam, Goa and Tuticorin.



Petroleum Refinery

# .infobits

• Fossil fuels are non-renewable resources. Their stocks are limited. So, we should not waste them.

#### **Natural Gas**

Natural gas is mostly made up of a gas called methane and is lighter than air. It is highly flammable. It is usually found near petroleum reserves. It is pumped from the ground and transported through pipelines to the storage areas.

### **Solar Energy**

Sun is the ultimate source of all types of energy. It can be used repeatedly. We can use solar energy in solar cooker to cook food, solar heater to heat water, solar cells to convert sunlight into electricity.



Solar Heater

### Fact Finder

Fossil fuels like coal, oil and natural gas, are finite natural resources formed from ancient organic matter.



What are igneous rocks? Give some examples.



### Summary ? \_

- + Soil is the top layer of Earth on which the plant grow.
- + The Earth's crust is made of rocks.
- + Digging out minerals from the Earth is called mining.
- + Natural gas is mostly made up of a gas called methane. Sun is the ultimate source of all types of energy.



A.	Tick (*) the correct option.						
	a.	What are the types of soil?					
		Eight	Seven	Four			
	b.	b. Which are fossil fuels?					
		Coal	Petroleum	Both			
	c.	How many types of r	ocks are there?				
		Three	Four	Five			
	d.	Which one of the fol	lowing is a soft rock?				
		Glass	Marble Marble	Clay			
	e.	Sandstone and limes	tone are the examples of	<u> </u>			
		metamorphic rocks	sedimentary rocks	igneous rocks			
<b>B.</b>	Fil	l in the blanks with su	itable words.				
	a.	Coal, petroleum and	natural gas are	·			
	b.	Soil is formed from t	he				
	c.	is a	a igneous rock.				
	d.	Petroleum is called _					
	e.	su	pport life on the Earth.				
C.	Wr	ite true or false.					
	a.	Solar cells are used to	o convert solar energy to ele	ectricity.			
	b.	Fossil fuels are non-	enewable resources.				
	c.	Natural gas is lighter	than air.				
	d.	Gypsum is a sedimentary rock.					
	e.	Granite is a soft rock.					

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### D. Match the columns.

- a. Organic part
- b. Metamorphic rocks
- c. Natural gas
- d. Petroleum
- e. Clay
- f. Sedimentary rock

- i. Marble
- ii. Underwater
- iii. Methane
- iv. Humus
- v. Rock oil
- vi. Smallest particles

### E. Answer the following questions.

- a. What are the various uses of solar energy?
- b. What is natural gas?
- c. What are fossil fuels?
- d. What are natural resources?
- e. What is humus?



- A. Write the various methods of extracting the fossil fuels on a chart paper and hang it in your classroom.
- B. Write down the process of soil formation.



## Water in Our Life



- Water pollution
- Effects of water pollution
- Causes of water pollution
- Purification of water

### **Water Pollution**

Harmful chemical wastes from homes and factories, fertilizers, pesticides, sewage and dead bodies make the water impure and unfit for drinking. This is called **water pollution** and the substances which cause pollution are called **pollutants**.



### **Causes of Water Pollution**

- Washing clothes on the river banks.
- Discharge of domestic wastes in water bodies.
- Throwing dead bodies in water.
- Oil spilled by ships and tanks.
- Discharge of industrial wastes in water.

### **Effects of Water Pollution**

When polluted water is used by animals or human beings directly or indirectly—

- It can cause diseases like typhoid, cholera, jaundice, diarrhoea etc.
- Aquatic animals become sick and die in polluted water.
- Polluted water makes soil infertile and crops get damaged.



#### TEACHER'S MOTES

Tell the students about the waste water and the methods of its disposal. Also, tell them about various purification methods and rainwater harvesting.

- Water plants get infected and die.
- ❖ When infected aquatic animals are eaten by human beings or other animals. They become sick and unhealthy.

We must check water pollution if we want to improve the quality of water bodies. Water pollution should be controlled because there is limited amount

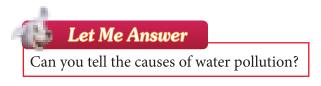
of fresh water on our Earth.

### **Every Drop Counts**

Water is precious. 70% of our Earth, although is covered with water, still cannot be used for daily activities as most of it is salty. Fresh water is available in the form of underground water, water in rivers, ponds and lakes that is not enough for everyone. This is the cause of water shortage.



Rainwater harvesting



Thus, we need to be a little careful to conserve water. Rainwater harvesting is a very good method to conserve rain water and store it for later use. This is done in open rural areas.

### **Purification of Water**

Water that is fit for drinking is called potable water. Water from rivers, lakes, reservoirs and other water bodies is brought through channels to the water-treatment plant. Here this water is made fit for drinking. At the water-treatment plant, water is first filtered to remove the impurities. It is then treated with chemicals to kill the germs present in it. This purified water is then pumped into the huge water tank. From here the water reaches the taps

in our houses through a network of pipelines. The height of the tank gives steady pressure to water passing through the pipes to our taps.



Water can be made safe at home by the following methods.

- \* Boiling: Kills the germs in water. Water should be boiled and cooled before drinking.
- \* Using chemicals: Chlorine tablets are added to water to kill germs in it. This process is called chlorination.
- \* Filtration: Solid impurities like dirt and sand can be removed by filtrating water. Now-a-days modern sophisticated filters are used to remove every type of impurity of water.



Improper disposal of chemicals and pollutants can contaminate water sources, posing serious risks to ecosystems and human health.





• Now-a-days RO systems are used to purify the water..



Is it safe to drink rainwater without purifying it? Why or why not?



- + Harmful chemicals, wastes from homes and factories, fertilizers, pesticides, sewage and dead bodies pollute the water.
- → Polluted water disturbs the aquatic life killing fish and water plants.
- + Polluted water can cause diseases like jaundice, typhoid, dysentery, diarrhoea and cholera.
- → Water which is fit for drinking is called potable water.
- + We should be a little careful to conserve water.
- + We must make sure that the water we drink is clean.



### A. Tick ( $\checkmark$ ) the correct option.

	a.	Which of these is a cause of water	pollution?	
		Bathing animals	lmmersion of idols	
		Both		
	b.	This disease is not caused by drin	king impure water.	
		Malaria	Jaundice	
		Fever		
	c.	How can we clean water?		
		Byboiling	By adding chlorine tablets	
		Both		
В.	Fill	in the blanks.		
	a.	Harmful chemical wastes from	and factories pollute the wa	ter.
	b.	Water plants become	and die.	

	c.	Water is				
	d.	kills the germs in water.				
C.	Ans	Answer the following questions in short.				
	a.	What are the pollutants?				
	b.	Which tablets are added to water to kill germs in it?				
	c.	What is chlorination?				
D.	Ans	swer the following questions.				
	a.	How does water get polluted?				
	b.	What are the effects of water pollution?				
	c.	What is rainwater harvesting?				
	d.	What is potable water?				
	e.	How is water made fit for drinking?				



- A. Visit a water treatment plant. Observe the different steps of water purification.
- B. Make a list of different types of water filters available in the market. Note their special features. Find out which is the most popular filter and why.

## Revision Test Paper -IV

### (Based on Chapters 13 to 14)

<b>A.</b>	T10	Tick ( ) the correct option.					
	a.	Which of these is:	a cause of water pollution?				
		Bathing animals	Immersion of idols	Both of these			
	b.	What are the type	s of rocks?	•			
		Three	Four	Five			
	c.	How can we clean	water?				
		Byboiling	By adding chlorine ta	ablets			
		Both	Ò		Ť		
В.	Fil	l in the blanks.					
	a.		kills the germs in water.				
	b.	We should avoid breathing					
	c.	Soil is formed from the					
	d.		is very important for all livi	ng things.			
C.	Wı	rite true or false.					
	a.	Pollution means contamination of air.					
	b.	The flat end at the top is called the south pole.					
	c.	Natural gas is lighter than air.					
D.	An	swer the following	questions in short.				
	a.	What are pollutan	•				
	b.	What is chlorination?					
<b>E.</b>	An	swer the following	questions.				
<b>1</b> •	a.	•	prevent air pollution?				
	b.	What is humus?					

### **Model Test Paper-II**

### (Based on Chapters 9 to 14)

<b>A.</b>	Tick (▼) the cor	rect option.			
	a	is celebrated	l in Punjab.		
	Baisakhi		Onam	Pongal	
	b	is the festiva	al of Christians.		
	Guruparb		Christmas	( Holi	
	c. We should no	ot touch electric	cal fittings with		•
	Wet hands		Dryhands	Both	
	d. We should cr	oss the road at?		~	
	Cow crossing	3	Zebra crossing	☐ Horse crossing	
	e. In olden time	e, which bird was	s used to send an	d receive message.	
	Sparrow		Parrot	Pigeon	
В.	Fill in the blank	is.			
	a. Deepawali is	afe	estival.		
	b. Republic Day	y is a	festival.		
	c. Safety habits	keep us safe fro	om		
	d. We should ca	coss the road at	•		
	e	is the fastest v	way to send writ	tten messages.	
C.	Match the colur	nms.			
	a. Train		i.	Humus	
	b. Television		ii.	Invisible	
	c. Organic Part		iii.	Methane	
	d. Air		iv.	Moves on railway track	cs
	e. Natural gas		V.	Mass communication	

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D.	W	Write true or false.					
	a.	Onam is celebrated in Punjab.					
	b.	Boats are rowed with oars or moved by sails.					
	c.	We should move in and out from a moving bus.					
	d.	An e-mail is the fastest way of sending written					
		messages and photographs.					
	e.	The earth is slightly flattened at both the ends.					
E.	Aı	Answer the following questions.					
	a.	Which national festival is celebrated on 26th January?					
	b.	Which festival is known as festival of colours?					
	c.	What are safety rules?					
	d.	Which safety rules should be followed at home?					
	e.	What is mass communication?					
F.	Write down the process of soil formation.						