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NEP 2020 FEATURES

The National Education Policy 2020 is determined to modify and broaden the approach of the learners so as to uproot the weaknesses whatsoever. This policy proposes the revision and revamping of all aspects of the education structure to create a new system that is aligned with the aspirational goals of the 21st century education.

Important Elements of NEP

- SDGs for Qualitative Education: Sustainable Development Goals for Qualitative Education introduces the learners to a most practical and valuable education system so as to quench their thirst of learning and career-building.
- **Cross-Cultural Learning:** It is a padegogy that increases one's understanding of one's own culture in contrast to another's.
- The 4Cs : Core Learning `Skills : Critical Thinking, Creativity, Collaboration, and Communication are the 4Cs of the 21st Century Skills.
- Multiple Intelligence: The persons having systematized knowledge mainly consider multifarious prudence. Multiple Intelligence allows us to think about different types of mental strengths and abilities.
- Critical and Analytical Thinking: It includes four processes

 One has an experience of it, (ii) followed by one's reaction to it. Then is (iii) one's concept about it and finally
 (iv) application of this experience in onward such events.
- Adaptive Education : Adaptive learning offers students more control over their learning process, making them feel more empowered.
- Life Skills : These enable one to be always gentle and vocational reflecting human values, dutifulness, sentiments etc. These are the basic traits a learner must possess to make his/her learning proper and creative.
- Development of Traditional Knowledge : Traditional knowledge is the knowledge, know-how, skills and practices that are developed, sustained and passed on from generation to generation.

REFACE CO

The present series 'Science' for classes 1 to 8 has been designed in such a way that students easily comprehend different scientific phenomena.

Children by nature are curious and eager to know more about their surroundings. They need proper guidance and proper reason of the events. Therefore we have divided the whole book in different units which will help them to understand surrounding facts in a proper way.

Some salient features of the book are :

- The language is very simple and attractive.
- Every scientific phenomena is explained with the help of picture.
- At the end of each chapter 'Sum Up Now' are given, very valuable for the students.
- Exercises are designed in such a way that an interest is created when they do that.
- Model Test Papers help the students to solve the questions.

We are sure that this series would serve the purpose for which it is intended. We would welcome your valuable suggestions from the Principals, teachers, parents and students to improve the series.

Unit - I : Plant Life

ONTENTS 🙃

1.	Plants Around us	•••	05				
2.	Uses of Plant	•••	13				
	Unit - II : Animal Life						
3.	Domestic Animals	•••	21				
4.	Wild Animals	•••	27				
	Unit - III : Human Body						
5.	Human Body	•••	33				
6.	Food for Us	•••	39				
7.	Safety Rules	•••	44				
Unit - IV : Our Universe							
8.	Air Everywhere	•••	50				
9.	Water Everywhere	•••	56				
10.	Forms of Water	•••	62				
11.	What's the Weather?	•••	67				
12.	Rocks and Minerals	•••	72				
13.	The Sun, Light and Shadows	•••	78				
14.	Things We Use	•••	83				
	🕂 Model Test Paper-1	•••	89				
	ϟ Model Test Paper-2	•••	91				
		0					

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0-0



Unit-I : Plant Life PLANTS AROUND US

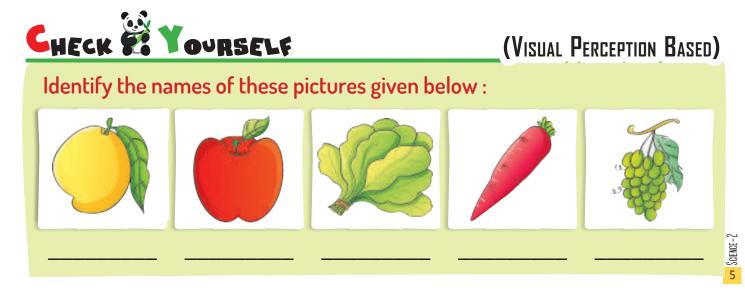
Stepping Up

🔀 Types of Plants

X Life Span of Plants



We see different kinds of plants in the picture. These plants are of different shapes, sizes and colours. Some plants are big while some are small.



TYPES OF PLANTS

On the basis of the size and kinds of stem, plants are of different kinds as follows :

- Trees
- Shrubs
- Herbs

- Climbers
- Creepers

Trees

- Strong and big plants are called trees.
- They have hard and thick stem called the **trunk**.
- They have many branches that bear leaves, flowers and fruits.
- They live for many years.
- Neem, mango, banyan, pine, coconut etc. are examples of trees.



Neem









Coconut

Shrubs

- Small plants with a hard and thin stem are called **shrubs**.
- Science-2 They are bushy and smaller than trees.



- Most shrubs live only for a few years.
- Rose, cotton, hibiscus, etc. are examples of shrubs.



Rose

Cotton

Hibiscus

Herbs

- Very small plants with a soft and weak stem are called herbs.
- They live only for three to four months.
- Mint, tulsi and spinach are examples of herbs.





Mint

Tulsi

Spinach

2 Science-2

Climbers

- The plants which cannot stand on their own and climb up with support are called **climbers**.
- They need support of sticks, walls and other plants to grow.
- They have very weak steams.
- Grapevine, beans, money plant, etc. are climbers.



Creepers

- Plants that cannot stand on their own and grow along the ground are called creepers.
- They have weak stems and thin branches.
- Pumpkin, watermelon and bottle gourd are examples of creepers.







Pumpkin

Watermelon



(VISUAL PERCEPTION BASED)

Write S below the shrub, T below the tree, H below the herb, Cl below the climber and Cr below the creeper :





Bring some different vegetables in the class like a cabbage, carrot and turnip. Encourage the students to apply their understanding of different edible parts of these vegetables.

Aquatic Plants

- Some plants grow in water.
- They are called **aquatic plants**.
- Moss, seaweed and lotus are some water plants.



Moss

Seaweed

Lotus



Desert Plants

- Plants that grow in deserts called are desert plants.
- Desert plants can live without water for many days.



Cactus

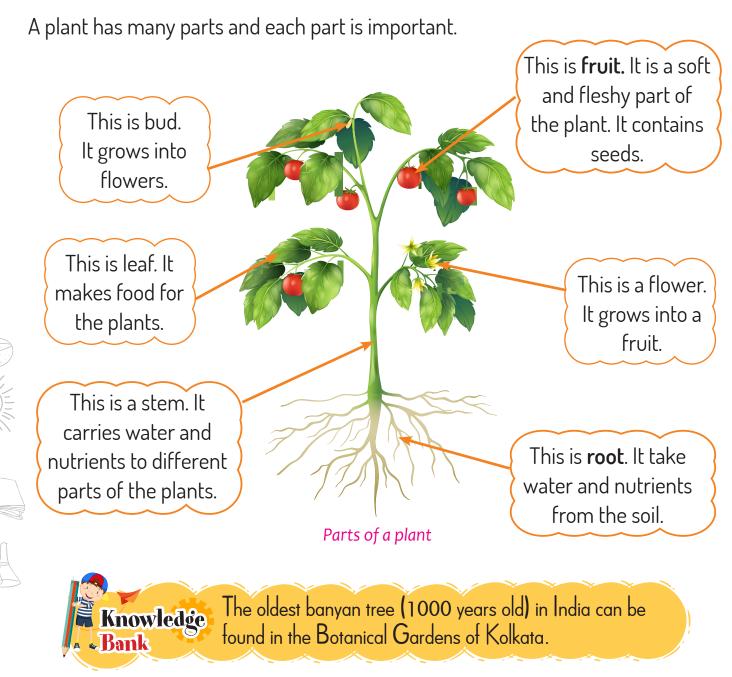


Datepalm

LIFE SPAN OF PLANTS

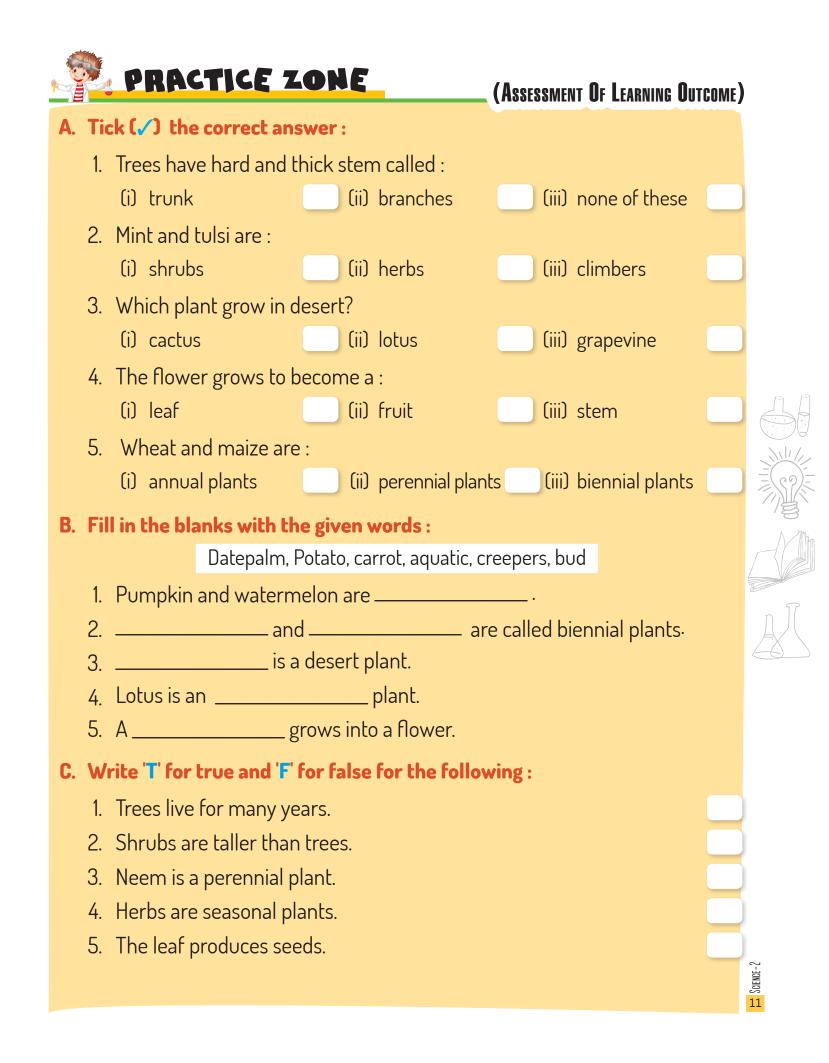
Different plants have different lifetime. Some plants live for a long time. They are called perennial plants. Neem and peepal trees live for many years. Some plants live for two seasons and are called **biennial plants**. Carrot, radish, potato are the examples of such plants. Some plants live for one season only. They are called **annual** $_{\widetilde{a}}$ plants. Wheat, maize, etc. are annual plants.

Parts of a Plant



Sum Up Now :

- Big and tall plants are called trees.
- 🙁 Shrubs are small plants with woody stems.
- 🙁 Herbs are small plants with soft green stems.
 - Climbers need support of a wall, stick or other plant to stand straight.
 - Creepers grow along the ground.



D. Answer the following questions :

- 1. What are shrubs? Give examples.
- 2. Write the difference between creepers and climbers. Give example for each.
- 3. What are aquatic plants?
- 4. What are perennial plants?
- 5. Name the different parts of a plant.



Vidhan was asked to collect one climber for his homework. He collected pea plant for it. Did he do his homework correctly?



Physical Media Development (PMD)

• Let's learn to use waste :

Visit a park close to your house. Collect all the fallen leaves and flowers of different types. Press them in the folds of old books or newspapers. After a few days the leaves and flowers will become dry. Now, take some drawing sheets and tie them together. Ask your teacher to help you in tying the sheets. Make a pretty cover for your album by pasting the dried leaves and flowers.



2-SCIENCE-2

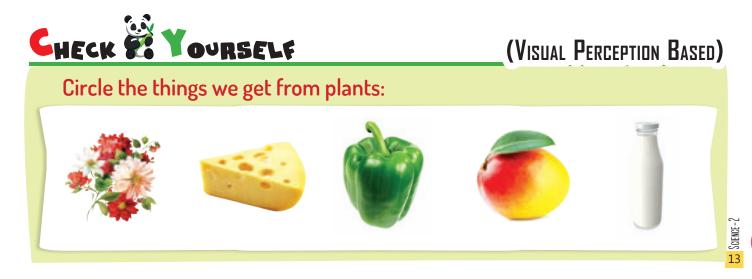


Food from Plants

Different Uses of Plants



Plants play a very important role in our life. They give us a lot of things. Most of our food come from plants. We get many other useful things from plants such as pencil, paper, rubber, wood, medicines and many more.



In this chapter, we will learn more about the importance of plants.

FOOD FROM PLANTS

We get most of our food from the plants. We eat different parts of a plant as food.

For example :

We eat the **roots** of plants like beetroot, carrot, turnip, radish, etc.



Plants give us cereals and pulses. Seeds of plants like rice, wheat, barley and maize are called **cereals**.



Seeds like arhar, urad, moong and masoor are called **pulses**.

Urad

Moong

Masoor

Arhar Cereals and pulses are called **foodgrains**.

Plants give us fruits and vegetables. They also give us nuts like coconut, cashew nut. walnut. etc.



DIFFERENT USES OF PLANTS

Plants Give us Spices

Spices add taste, flavour and aroma to our food. We get spices such as cardamom, coriander, turmeric, cinnamon, cloves etc. from plants.



Plants Give us Medicines

We get medicines from plants like tulsi, neem, garlic, eucalyptus, etc. **Tulsi** leaves are used to cure cold and cough. Some parts of amla, haldi and aloe vera are also used as medicines. We get quinine from the bark of the **cinchona** tree. It is used to

cure **malaria**.

Tulsi

Jasmine Perfume

Plants Give us Oil







Rose Perfume

Plants Give us Perfumes

Flowers of certain sweet-smelling plants like rose, champa and jasmine are used to make

perfume.

We get oil from seeds of plants such as mustard, groundnut, coconut etc.

We get oil by crushing the seeds of these plants. Oil is used in cooking food, making soap, etc.



C	HE	K S YOURSELF			(Critical Thinking)
	Ma	tch column A with column B :			
		Column A		Column B	
	1.	leaves	(i)	spice	
	2.	beans	(ii)	oil	
	3.	mustard	(iii)	ginger	
	4.	coriander	(iv)	tea	
l	5.	stem	(v)	coffee	

Plants Give us Wood

Plants give us wood. We make many things like pencil, table, chair, window and door from wood and use firewood as domestic fuel.



Plants Give us Fibres

We get fibres from plants like cotton, jute, etc. Cotton fibre is used to make cotton clothes.



Bamboo is the tallest grass and the fastest growing plant.



Bamboo Plant





Paper

Eraser

Knowledge

Bank

Rubber Plant

Tyre

Plants Give us Paper, Gum and Rubber

We get paper from plants such as bamboo and pampas grass.

Rubber items such as gloves, rubber ball, tyres and erasers are also made from the milky liquid of rubber plants.



Acacia Plant

We get **gum** from the juice of the **acacia** or **keekar** tree.

Some other uses of Plants



Flowers like rose and marigold are used for making garlands. We use flowers and leaves of some plants to make bouquets.

Garland

Plants help to cool and clean the air. They give us oxygen to breathe. They make the surroundings beautiful. Plants are the home of many animals such as insects, birds, etc.



🖹 Sum Up Now :

- 😢 Most of our food comes from plants.
- Plants give us many useful things like fruits, vegetables, seeds, spices, food grains, etc.
- 😢 Plants also give us tea, sugar, coffee, fibre and perfumes.
- 😢 We get rubber and gum from plants.
- 😢 Some plants are used for making medicines.
- 🙁 Plants also give us fresh air and make the surrounding green and beautiful.

PRACTICE Z	ONE	(Assessment Of Learning Out	ICOME)
A. Tick (/) the correct and	swer:		
1. Plants give us fruits a	nd :		
(i) plastics	(ii) vegetables	(iii) both of these	
2. Jasmine plants are us	sed for making :		
(i) perfumes	(ii) medicines	(iii) spices	
3. Leaves of this plant is	used to cure cold and	cough.	ηĴ
(i) tulsi	(ii) amla	(iii) neem	
4. This is obtained from	the juice of the acacia	tree.	
(i) gum	(ii) rubber	(iii) oil	
5. Plants give us :			
(i) carbon dioxide	(ii) oxygen	(iii) none of these	
B. Fill in the blanks with th	e given words :		
bouque	t, keekar, chocolate, woo	od, sugar	
1. Gum is obtained from	tree.		
2. Cocoa beans are crus	hed to make		
3. We use flowers to ma	ke		Science -2
			19

- 4. We get ______ from sugarcane.
- 5. Tables and chairs are made of ______
- C. Write 'T' for true and 'F' for false for the following :
 - 1. We eat roots of onion and potato.
 - 2. Cocoa beans are crushed to make chocolate.
 - 3. Spices add flavour and taste to our food.
 - 4. Flowers of rose plant are used to make perfumes.
 - 5. Cereals and pulses are known as foodgrains.

D. Answer the following questions :

- 1. What do plants give us?
- 2. Name the plants that give us medicines.
- 3. How do we get oil from plants?
- 4. Where do we get tea and coffee from?



At Tina's home, they use mustard oil to cook food. At Payal's place, they use sunflower oil to cook food. What is that one thing which is common between mustard oil and sunflower oil?

Creativity Zone Physical Media Development (PMD)

Collect seeds of different plants. Put them in small polybags. Paste them in your scrapbook. Write the names of the plants against each polybag.



CIENCE-2

Unit-II : Animal Life DOMESTIC ANIMALS

Stepping Up

🔀 Domestic Animals

- 🔆 🔀 Animals as Sources of Food
- 🔀 More Help from Animals

Different kinds of animals are found on the earth. Some animals live in forests while some animals can be tamed and kept at home and farms.



DOMESTIC ANIMALS

Animals that are tamed and kept by humans for work, food or as pets are called domestic animals. Domestic animals depend on humans for food and shelter.



Cow



Goat



Camel



Buffalo

COLENCE-2

Farm Animals

Domestic animals that are kept for work and food at farms are called **farm animals**. Horses, cows, sheep, hens, ducks and goats are some examples.



Horses



Cows



Sheep





Hens

Ducks

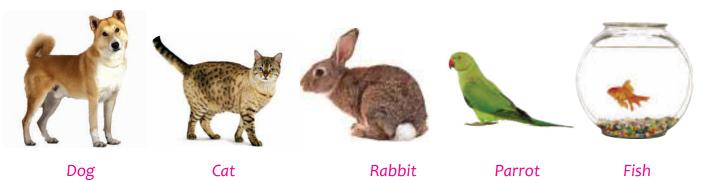
Goats

Things we get from farm animals are known as **farm products**, such as egg and milk.



Pet Animals

Animals that live with us in our homes are called pet animals.





They help us in many ways.

- We play and enjoy with pet animals.
- A dog guards our house.
- A cat keeps mice away.

ANIMALS AS SOURCES OF FOOD

The table shows the different kinds of food we get from animals.

Animals	Food
Cows, buffaloes, camels and goats	Milk which is also used to make cheese, butter, yogurt, ice cream and other milk products
Hen and duck	Eggs
Goat, hen and fish	Meat, chicken and fish
Honeybees	Honey





(Focused Attention Based)

Name the things that we get from animals : 1. Cow 2. Hen 3. Goat 4. Honeybee

MORE HELP FROM ANIMALS

Other than food, animals give us things that we need in our daily lives. They help us in many other ways too. Read about it in the table further.



Sheep and yak

Silkworm



Bullocks

Animals	Things or help they provide	8 4 - W2
Sheep and yak	Wool for woollen clothes	
Silkworm	Silk for sari, scarf and other clothes	
Bullocks, donkeys, camels and horses	They help to carry heavy loads and people from one place to another. Bullocks and camel plough fields.	

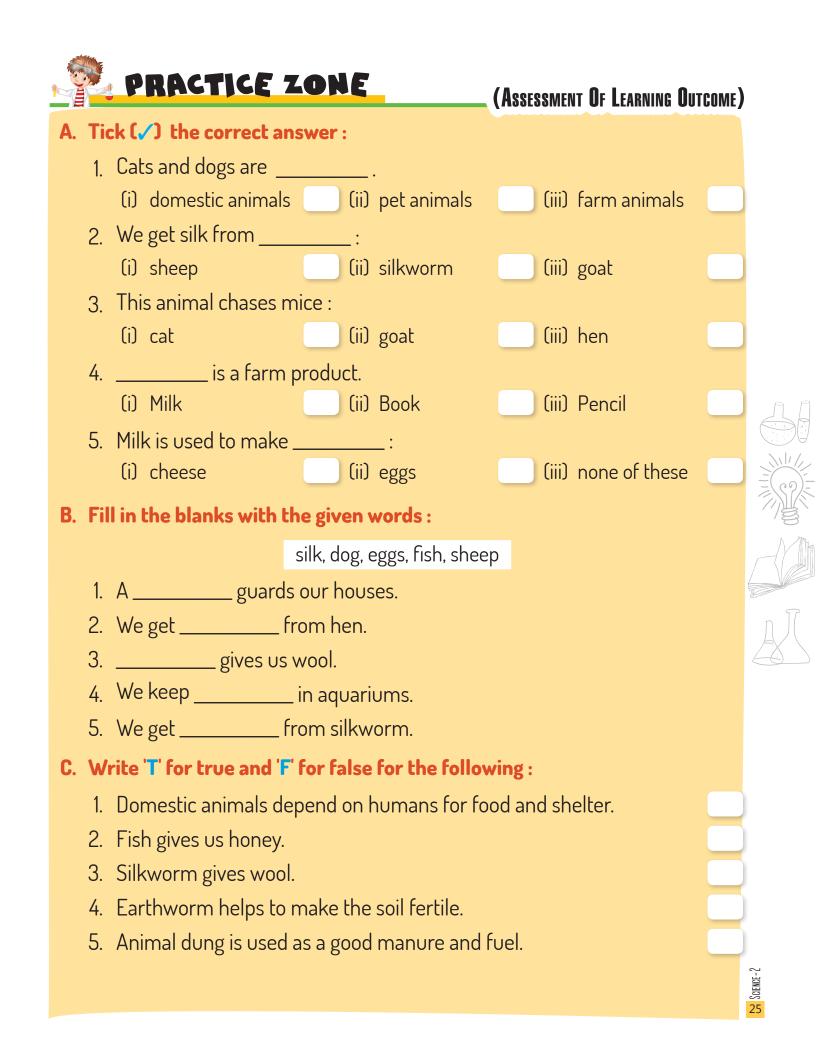
Animals like elephant, camel, oxen, horse, and donkey Knowledge carry heavy loads for us. They are called beasts of burden. < Bank

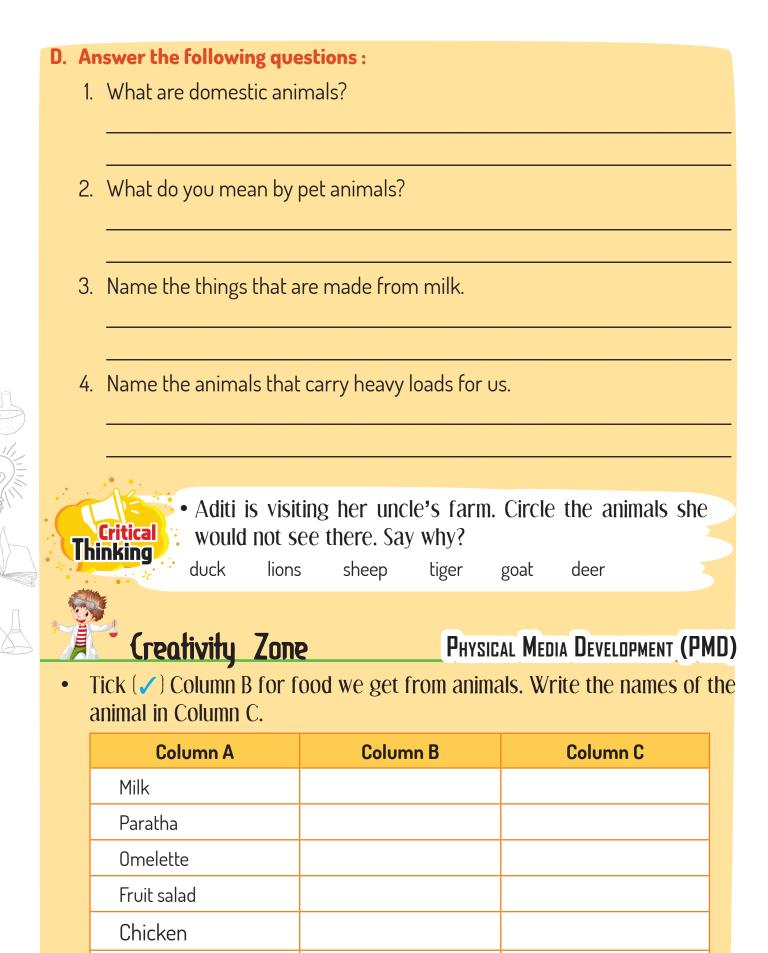
Dung of animals like horses, cows, buffaloes and camels on drying is used as fuel. Also on decomposition of dung, it is used as manure.

🌋 Sum Up Now : Farm animals and pet animals are also called domestic animals. We get milk, eggs, meat and honey from animals. We also get wool and silk from animals. Some animals carry heavy loads. -DNAIOS 24

Animal dung makes good manure and fuel.

2-SOIENCE-2





201ENCE-2

Chapati





Stepping Up

🔀 Houses of Wild Animals

🔀 What do wild Animals Eat?

🔀 Endangered Animals

The animals we see in the forest are called wild animals. We cannot keep these animals at home.



Tigers, zebras, giraffes, bears, lions and deer are examples of wild animals.

Some wild animals such as crocodiles, snakes and frogs, live both in water and on land.



Crocodile







Snake

2- Solence - 2

HOUSES OF WILD ANIMALS

Wild animals find or build their own houses or shelters. Let us learn about them.

Caves

Many animals live in **caves** or **dens** found in the forests. Lions, tigers, bear and bats are animals that live in caves.



Lion in a den

Tiger in a den

Burrows

Some animals dig **burrows** in the ground where they store food and find shelters. Rabbits, moles, rats, snakes and mongoose live in burrows.



A rabbit in its burrow



A snake peeping out of its burrow



Rat in a burrow

Nests

Birds build **nests** on trees. The nests are safe shelters for their eggs and babies. Monkeys and koalas also live on trees.









Monkey live on trees.



Koalas live on trees.



Hives

Honeybees are often kept in farms for honey. However, they also live in the wild. They build **hives** to live in. They store food (honey) and lay eggs in the hive.

Hives

Webs

The home of a spider is called the **web**. Apart from shelter, the web helps the spider to catch small insects that are its food.



Web



WHAT DO WILD ANIMALS EAT?

Different animals eat different types of food. On the basis of their food habits, animals can be divided into three categories :

Herbivores, carnivores and omnivores.



Find more information on food habits of animals in the table given below :

Animals	Food they eat	Examples
Carnivorous animals	Eat the flesh of other animals	Lion, tiger, crocodile, wolf and shark
Herbivorous animals	Eat plants	Buffaloes, rabbits, cows, deer, elephants, zebras and giraffes
Omnivorous animals	Eat both plants and other animals	Bears, foxes and some birds

ENDANGERED ANIMALS

Many wild animals are killed by human beings for their tusks, horns etc. As a result, animal such as pandas, Indian rhinoceros, etc. have become endangered. Endangered animals are kept safe in national parks and wildlife sanctuaries.



Rhinoceros

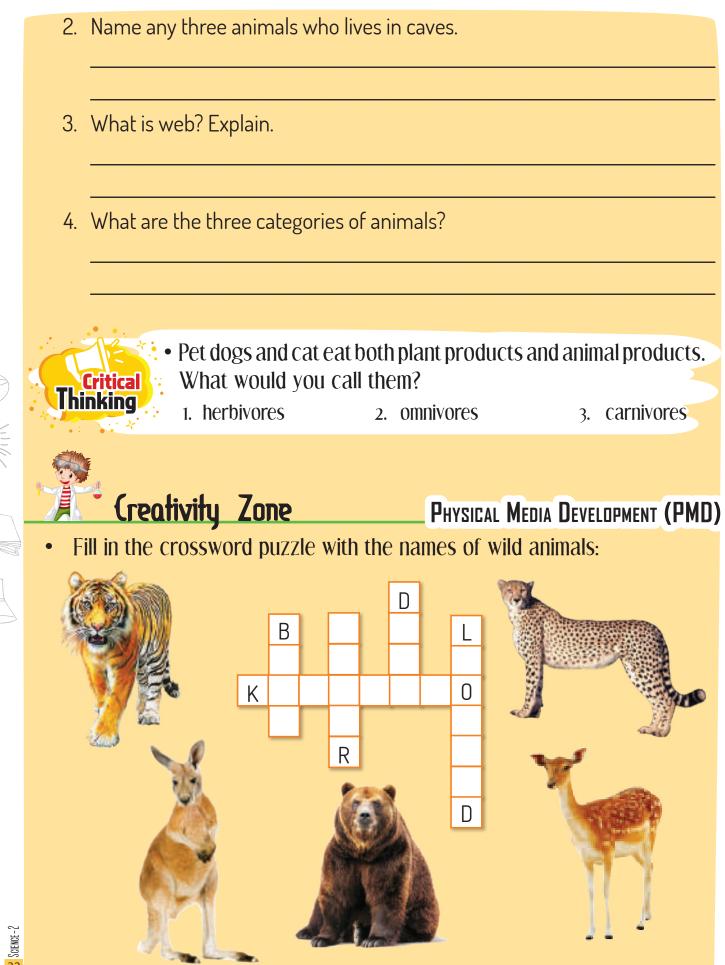




Sum Up Now :

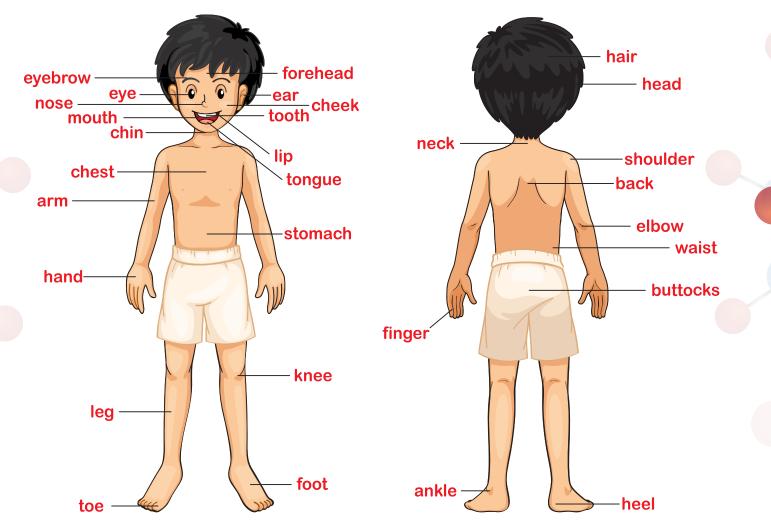
- 🙁 Animals that live in the forests or other places apart from our homes and farms are known as wild animals.
- 🙁 Wild animals do not depend on humans for food, shelter and other needs.
- A place where a wild animal lives, find food and water is known as its habitat.
- On the basis of their food habits, animals are herbivores, carnivores and omnivores.

PRACTICE 2	ONE	(Assessment Of Learning (Оитсоме)
A. Tick (/) the correct an	swer :		
1. Wild animals live in :			
(i) forest	(ii) farms	(iii) homes	
2. Lions and tigers live i	n :		
(i) dens	(ii) burrows	(iii) water	
3. The home of a spider	is called :		
(i) cave	(ii) web	(iii) den	
4. Animals that eat only			
(i) omnivores	(ii) carnivores	(iii) herbivores	
5. Bees store			
(i) water	(ii) honey	(iii) milk	
B. Fill in the blanks with the	ne given words :		
burrow, (Carnivorous, Herbivores,	, wild, trees	
1. Bears and giraffes are	e animals.		
2. Monkeys and koalas l			ДЛ
3. Small animals dig	Ŭ		
4 are the ar		1	
5animals e	at flesh of other anima	als.	
C. Name any two :	I.		
1. Herbivorous anima			
D. Answer the following qu			
1. What are wild animal	S?		
			CTENCE 2
			31





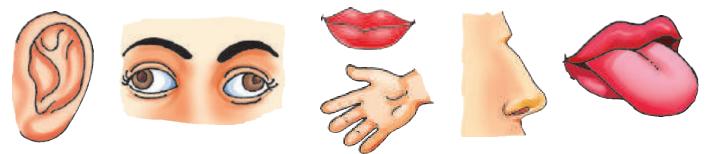
Look at the parts of the body in the given picture.



External and Internal Body Parts

The human body is like a machine with many parts. All the parts play their own important roles to help the body work and grow.

Parts of the body that we can see from outside are called the **external body parts**. Examples : Eyes, nose, ears, hands, feet, neck, cheeks and chin.



External body parts

Internal body parts are present inside the body and cannot be seen from outside. Examples : Brain, heart, lungs, liver and kidneys.



Internal body parts

BONES AND MUSCLES

Everything you stand, sit and walk, you are using your bones, muscles and joints. Without these important body parts, we would not be able to stand, walk, run or even sit.

All parts of our body join together with bones and muscles. The skin covers our body.



Knee joint

Ankle

Skeleton

Bones

Bones are hard. There are 206 bones in our body. Bones protect the delicate organs of our body. The place where two or more bones are joined together is known as a **joint**. The joints helps us to bend.

Skeleton

In our body, 206 bones are joined together to form a framework. This framework of bones is called **skeleton**. It provides support and gives shape to our body.



Explain that we can see bones through x-ray pictures.

Muscles

Muscles are the soft parts which cover the bones. They help in the movement of the body.

There are more than 600 muscles in our body. Our arm muscles help us to lift, hold and carry things.

Our leg muscles help us to walk, run, jump, hop, swim and play.



(CRITICAL THINKING)

Do the following activities and write down what parts of your body helped you to do these activities :

- Lift a heavy book 1.
- Play with a cricket ball and bat 2.
- З. Climb a ladder

PHYSICAL EXERCISE

Regular exercise and healthy food make our **bones** and **muscles** strong. Activities such as running, walking, jogging, swimming, jumping, playing or skipping make the bones and muscles strong and flexible.







Yoga



Jogging



Eating healthy food

Strong muscles and bones help us to work and play without getting tired.

Correct Posture

Posture is the position in which we keep our body, when we sit, stand or walk. Correct posture is important for healthy bones and muscles. It keeps our body in good shape. Some tips on good posture :

Rules of Correct Posture

1. While sitting:

- Sit with your back straight.
- Keep your head up.
- Keep your shoulder straight.
- Keep your feet flat on the floor.

2. While standing:

- Stand erect with your back straight.
- Keep your chest a little out and chin in.
- Put the weight of your body evenly on both the feet.
- Keep your feet about 15 centimeters apart.

3. While walking:

- Keep your body straight.
- Hold your head high.
- Allow your ankles and knees to move freely.
- Swing your arms freely.

🖹 Sum Up Now :



Parts of the body that we can see from outside are called the external body parts.Internal body parts are present inside the body and cannot be seen from outside.



Science - 2

	😪 Bones are hard. They protect the delicate organs of our body.								
	•	Our body has a framework of bones called the skeleton. It provides shape							
		and support to our body. Muscles are attached to the bones and help them to move.							
		Muscles are attached t	o the bor	hes and heip th	em to	move.			
		PRACTICE Z	ONE		(Asses	sment Of Learning O	UTCOME))	
Α.	Tio	:k (\checkmark) the correct ans	wer :						
	1.	There are more than .		muscles in a	our bo	dy.			
		(i) 550	(ii)	600		(iii) 650			
	2.	The point where two k	ones m	eet :					
		(i) joint	(ii)	muscles		(iii) none of these			
	З.	The brain is located in	the						
		(i) skull	(ii)	liver		(iii) kidney			
	4.	We should do exercise							
		(i) daily	(ii)	once a week		(iii) twice a week			
	5.	Exercise makes our m	uscles _	·					
		(i) weak	(ii)	strong		(iii) none of these			
B.	Fi	ll in the blanks with th	e given	words :				<u>(</u>)	
		straight,	skin, ma	ichine, posture,	Muscl	es			
	1.	The human body is lik	e a	·					
	2.	are soft pa	rts whic	h cover the bo	nes.				
		The is the o		Ũ	-				
		Correct kee			r shap	е.			
	5.	We should sit with our	back	·					
C.	W	rite 'T' for true and 'F' l	or false	for the follow	ving :				
	1.	Our body is made up o	fbones	and muscles.)	
	2.	Bones give shape to o	ur body.					Science - 2	
								37	

- 3. There are 400 bones in our body.
- 4. Muscles are hard and stiff.
- 5. The correct posture make us look ugly.
- D. Answer the following questions :
 - 1. What are internal body parts?
 - 2. What are external body parts?
 - 3. What are bones and muscles?
 - 4. Why is physical exercise important?
 - 5. What is posture?

hinkina

Reena bends forward while sitting. Is this the correct posture!

Creativity Zone

Physical Media Development (PMD)

• Ask each of your family member to place their foot on a sheet of paper. Trace an outline of their feet. Does the length tell you something about the size of their bones .



Science-2



Stepping Up

🔀 Different kinds of Food

🕻 Water

🔀 Healthy Eating Habits

🔀 Balanced Diet



All living beings need food to remain alive.

(ii) to keep us healthy and fit, and

(iii) to grow big and strong.

We need to eat food:

(i) to get energy to do all the activities such as studying, playing, walking and thinking.









Studying

Playing

Walking

Thinking



DIFFERENT KINDS OF FOOD

We eat different types of food every day. We can divide the food we eat into three categories. Let us look at the table below to learn more about these food groups and their importance.

Food-group	Functions	Examples
Body-building food	 Make us healthy and help us to grow. Build our bones and muscles and make them strong. 	meat, eggs, fish, beans and
Energy-giving food	Give us energy to work, study and play.	Wheat, potato, rice, sugar and butter.
Protective food	Protect our body from diseases.	Fruits, vegetables and nuts.

Water

Water is very essential for us. It helps us to throw out wastes from the body. We must drink 8-10 glasses of water every day.

Balanced Diet

A daily pattern of eating and drinking is called **diet**.

We must eat the right kind of food for proper growth and health. A diet rich in proteins, carbohydrates, fats, minerals and vitamins is called a **balanced diet**.

We take three meals a day.

The first meal of the day is called the **breakfast**.

We take breakfast in the morning.

The second meal is called **lunch**. We take lunch in the afternoon.

In the evening we may have some light **snacks** to eat.

The third meal is called **dinner**.

We take dinner at night.



Balanced Diet









Breakfast

Lunch

MAKE TEACHING FUN

Discuss about energy-giving food such as butter, ghee and oil that are difficult to digest.

Healthy Eating Habits

To stay healthy and fit, it is important to include food from every food group in our meals. We must also remember to :

- Drink plenty of water.
- Wash the hands before and after every meal.
- Rinse the mouth after every meal.
- Have meals on time and keep proper gaps between the meals.
- Take small bites and chew the food well before swallowing it.
- Eat clean and fresh food.
- Eat and drink from clean plates, spoons and glasses.
- Eat just the right amount of food, neither more nor less.
- Not to have junk food too often and too much.



(Critical Thinking)

2-ENCE-2

Take this test :

- 1. Do you wash your hands before and after eating?
- 2. Do you drink milk every day?
- 3. Do you chew your food properly?
- 4. Do you eat fruits and vegetables?

Now compare your answers with those of your friends.

Sum Up Now :

- 😢 Food gives us energy to work and play.
- 🙁 We should eat just enough food to keep us fit.
- Food can be divided into three groups : Body-building foods, energy-giving foods and protective foods.

(Assessment Of Learning Outcome)

(iii) none of these

(iii) both (i) or (ii)

(iii) both

(iii) junk

🙁 Breakfast, lunch and dinner are the three main meals of the day.

PRACTICE ZONE

A. Tick (/) the correct answer :

1. We need food to remain :

(i) dead

2. Fruits and vegetables are ______ foods:

(ii) alive

- (i) energy giving (ii) protective
- 3. A daily pattern of eating and drinking is called :
- (i) food (ii) diet 4. We must eat ______ food.
- 4. we most eat _____ rood.
 (i) dirty _____ (ii) fresh
- 5. _____ is our afternoon meal.
 - (i) Lunch (ii) Breakfast (iii) Dinner

B. Fill in the blanks with the given words :

Protective, swallowing, Milk, junk, dinner, water

- 1. _____ is a body-building food.
- 2. _____ foods protect us from diseases.
- 3. We take _____ at night.
- 4. We must drink plenty of _____.
- 5. We should not have too much ______ food.

C. Write 'T' for true and 'F' for false for the following :

- 1. We must eat junk food regularly.
- 2. We must wash our hands before and after having meals.
- 3. Chewing food properly is important for digestion.
- 4. We should not drink lots of water.
- 5. We should never skip breakfast.

D. Answer the following questions :

- 1. Why do we need food?
- 2. What is body-building food?
- 3. What is balanced diet?
- 4. Write some healthy eating habits



Rahul's baby sister Misha drinks milk and eats some baby food. Rahul eats fruits, vegetables, roti, rice, dal, cereals and many other food items. Why do you think Rahul and Misha have different food habits?

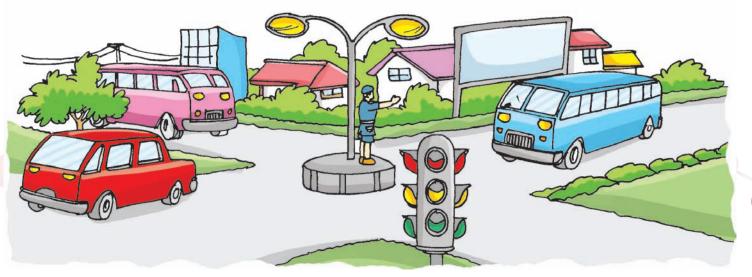
Creativity Zone Physical Media Development (PMD)

Prepare a balanced diet chart and display it in your classroom.

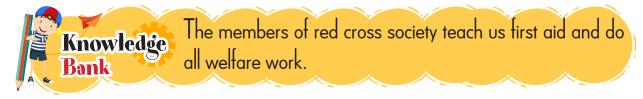




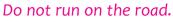
Safety means to save ourself and others from danger or any kind of risk.



Accidents happen when we are careless. We can avoid such accidents by being careful. We should follow safety rules every time and everywhere whether at home and outside.









Do not tease an animal.



Do not run on stairs.

Safety Rules on the Road

- Always use the footpath while walking.
- Cross the road only at **zebra crossing**.
- Do not play on the road.
- Never run across the road.







- Always ride your bicycle on the left side of the road.
- Look to your right, then left and then right again before crossing the road. Cross the road when it is clear.

(CRITICAL THINKING) he traffic signal:

Fill in the blanks below with the correct colours name of the traffic signal:

The traffic light says:

- When I turn _____, the traffic waits.
- When I turn ______, off the traffic goes.

When I turn ______, the traffic stops.

Safety Rules at the Playground

- Always play at safe places like a park or in an open space.
- Always play safe games.
- Do not push or pull each other off the swings.
- Never stand in front of a moving swing.



- JONE - SOLENCE - 45

Safety Rules in a Vehicle

- Do not get in or out of a moving vehicle.
- Do not put your hand, head or any other part of your body out of a moving vehicle.



• Do not disturb the person who is driving the vehicle.

- Always stand in a queue to get into a bus.
- Do not stand on the footboard of a bus.

Safety At Home

- Do not touch electrical switches and plugs with wet hands.
- Do not play with sharp objects like knives and blades.
- Do not fly kites on the roofs of the house. You may fall down.
- Do not throw your toys on the floor. You may trip on them and fall.
- Never take any medicine without the permission of the elders.





Do not play with electric switch. Do not play with sharp object.

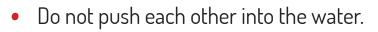


Do not fly kite on roof.

2-SCIENCE-2

Safety Rules in the Pool

- Do not swim without the supervision of an older person. Do not swim in the deeper side of the pool.
- If you have not learnt to swim properly, always use swimming tubes or floaters.







First Aid

The immediate treatment given to an injured person before a doctor's arrival is called **first aid**. First aid means providing quick medical help before taking the injured person to a nearby hospital. Always keep a first aid box in your house.

😵 Sum Up Now :

- 🙁 We must be careful and should follow the safety rules to avoid accidents.
- 😪 We should cross the road at the zebra crossing and follow the traffic lights.
- 🙁 We should not play with sharp objects or fire.
- 🙁 Do not play on the road or on the roof.
- 🙁 We should not go alone into a pool.
- The immediate treatment given to an injured person before a doctor's arrival is called first aid.



A. Tick (/) the correct answer :

1. Safety means to stay away from :

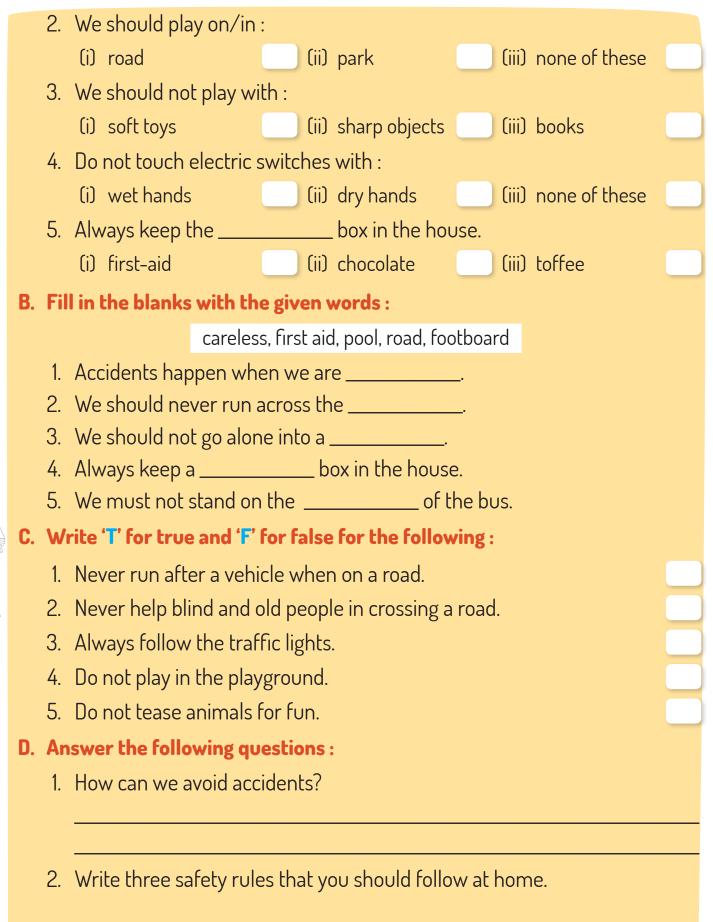
(i) danger

(ii) toys

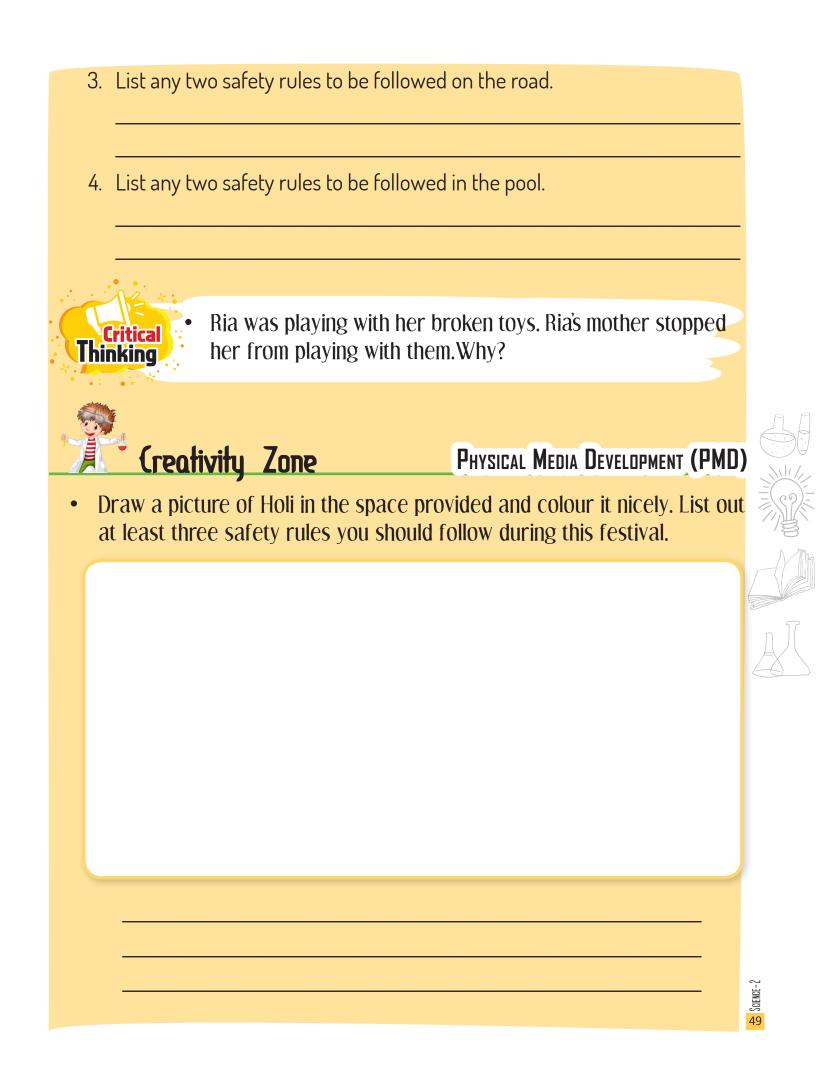
(iii) books

(Assessment Of Learning Outcome)

- SOIENCE -



Science-2



Unit-IV : Our Universe AIR EVERYWHERE!

Stepping Up

🔀 What does Air contain?

🔀 Keeping the Air Clean



Air is everywhere. All living beings need air to breathe. We cannot see it but we can feel it when we fan ourself, blow on our hand and sit under a moving fan.



- Moving air is called **wind**.
- When wind blows gently, it is called **breeze**.
- When wind blows very fast, it is called **storm**.

WHAT DOES AIR CONTAIN?

Air Contains Dust Particles

When we sweep or dust our furniture, dust particles mix with air.

Air Contains Smoke

Burning of wood, petrol, diesel, etc. release smoke.

Smoke is also released by the chimneys of factories. This smoke get mixed with the air .

Air Contains Water Vapour

We wash our clothes with water. Water makes the clothes wet. Wet clothes dry and we hang them out in the sun. Where does the water go? It converts into water vapour and mixes with air.

Air Contain Germs

When a person coughs or sneezes, germs mix with the air. These germs can make us sick when they enter our body.



CHECK Critical Thinking)					
	Ma	tch Column A with Column B : Column A		Column B	
	1.	moving air	(a)	contains water vapour	
	2.	germs	(b)	burning petrol	
	3.	air	(c)	wind	
	4.	smoke	(d)	not good for health	

Features of Air

Air has its own features or properties. Let us read about some simple activities to understand these properties.

Features of Air	An activity to show
Air fills up empty space. It gives shape to things.	While chewing a chewing gum, when we blow it out, it grows. What is inside the blown up chewing gum? It's air. It fills up the empty space in the gum and gives it shape.
Air has weight.	Keep an empty balloon on a measuring scale and note its weight. Now blow air into the balloon and weigh it again. You will notice that the balloon filled with air weigh more than the empty balloon.
Air has force.	Moving air has a lot of force. It blows everything that comes in its way.

Keeping the Air clean

2-SOIENCE-2

Plants, animals and human beings need to breathe clean air. Here are some ways of making the air cleaner and healthier.

- We should plant more trees. Trees keep the air clean, fresh and healthy.
- Too many vehicles on the road means more dirty smoke getting mixed with air.

Walking short distances or sharing rides in cars can reduce the number of vehicles.

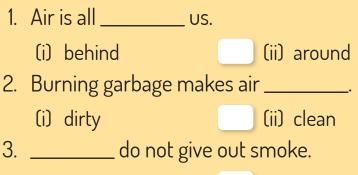
- Bicycles do not give out smoke. So, we can ride the bicycle to keep the air clean.
- We should never burn dry leaves, garbage and other things that emit dirty smoke into the air.

🖹 Sum Up Now :

- 😢 Air is present all around us.
- 🙁 Air contains dust, water vapour, smoke and germs.
- 🙁 Air has weight and gives shape to things.
- 🙁 Moving air is called wind.
- 🙁 We must keep the air clean.

PRACTICE ZONE

A. Tick (/) the correct answer :

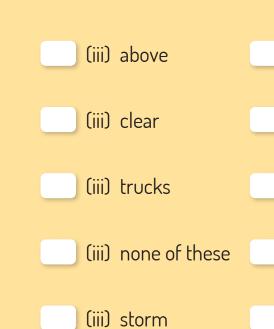


- (i) Bicycle (ii) Cars
- 4. Moving air has a lot of _____.(i) force (ii) weight

(ii) wind

5. Moving air is called :





Science - 2

(Assessment Of Learning Outcome)



B. Fill in the blanks with the given words :

Trees, breeze, Impure, garbage, dust

- 1. When wind blows gently, it is called ______.
- 2. Air contains _____, water vapour, smoke and germs.
- 3. _____ air is not good for our health.
- 4. _____ keep the air clean.
- 5. We should never burn leaves and ______.

C. Write 'T' for true and 'F' for false for the following :

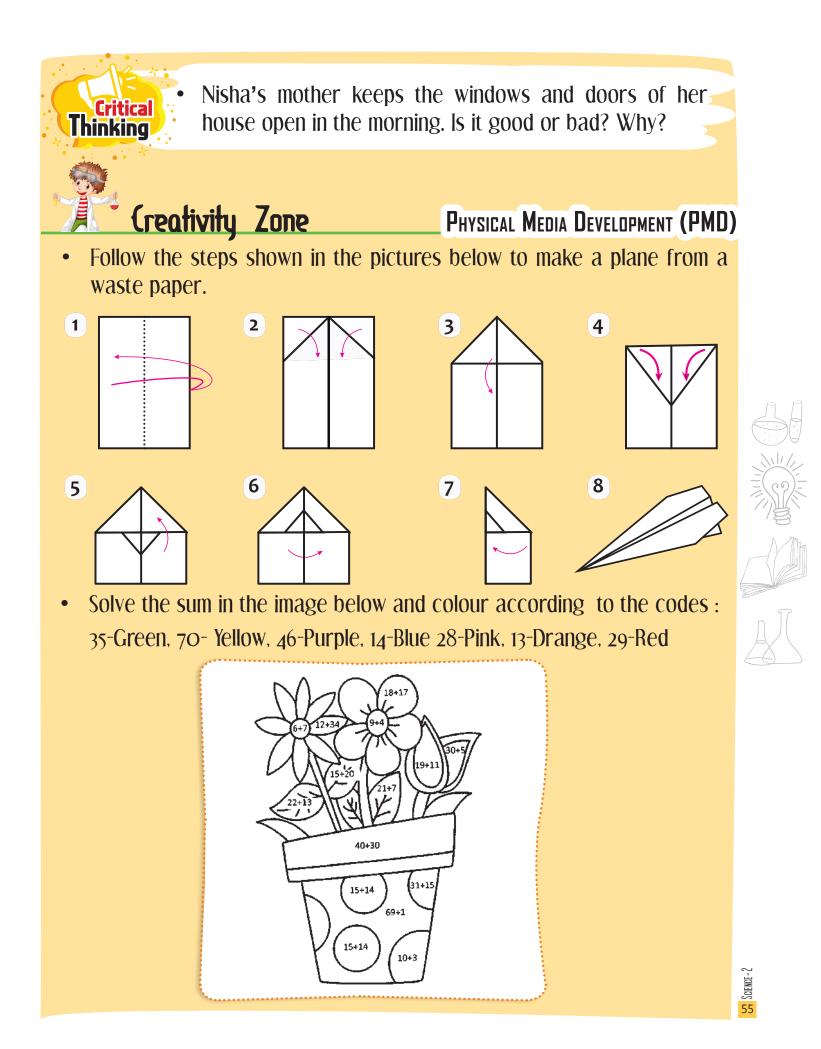
- 1. We cannot feel air.
- 2. Smoke and germs make the air dirty.
- 3. Air occupies space but does not have weight.
- 4. Wind can blow off dry leaves.
- 5. We should plant more and more trees.

D. Answer the following questions :

- 1. What do you mean by wind?
- 2. What is storm?
- 3. What does air contain?
- 4. Name the things which can make the air dirty.

5. What should we do to keep the air clean?

2-SOIENCE-2







Water is the most essential element to life on earth. No living being can live without water. We need water for drinking, cooking, bathing, washing and cleaning. Plants also need water to grow.



Drinking



Cooking



Bathing







Washing

Cleaning

Plants need water

Sources of Water

Rain is the main source of water. When rain falls on the earth, this water collects in lakes, ponds, streams and rivers. Some rainwater goes deep under the ground. This water is called groundwater.



Lake

Pond

Stream

Тар

Groundwater is drawn out with the help of handpumps and wells. In cities, water is supplied in homes through taps.



Well

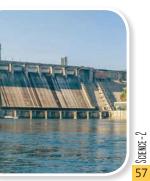
Handpump

Uses of Water

We use water in our houses for drinking, cooking, cleaning, washing and many other activities.

- Farmers need water to grow crops.
- Water is used in factories to make various things.
- We travel and transport goods to far off places on ships that sail on water.
- Water is used to generate electricity.
- Water is the habitat for a large number of plants and animals.







	HE	Knowledge Bank Water is used by fire fighters to put off fire.		(Focused Attention Based)
1	Ma	tch Column A with Column B :		
		Column A		Column B
	1.	Surface water	(a)	Taps
	2.	Ground water	(b)	Rain
	3.	Cities	(c)	Ponds
	4.	Main source of water	(d)	Wells

Drinking Water

Water we get from different sources such as rainwater, rivers, lakes and ponds may contain dirt, dust and germs. Using this water directly for drinking would make us fall sick. Typhoid, cholera and dysentery are some diseases spread by drinking dirty water.

There are various methods by which we remove germs from water.

- Boiling water kills the germs that might be present in it, thus making it safe for drinking.
- People keep water filters or purifiers at home. These are the machines that filter or clean water.
- It is important to store drinking water in clean containers that have lids.



SCIENCE-2

Save Water

We can save water in the following ways :

- get the leaking taps repaired
- close the tap while brushing teeth or applying soap on the hands
- avoid bathing in showers. Use buckets and mugs.



- Collect and store rainwater in tanks, drums, buckets, bottles etc. to use later.
- Reuse water whenever possible.

Sum Up Now :

- The presence of water on Earth makes it possible for living things to live and grow.
- 🙁 All living things—plants, animals and human beings need water.
- 🙁 Rain is the main source of water on Earth.
- 🙁 We should boil or filter water before drinking.
- 🙁 We should not waste water.
- 🙁 It is important to keep the water bodies clean.

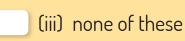
PRACTICE ZONE

A. Tick (/) the correct answer :

1. Plants need water to :

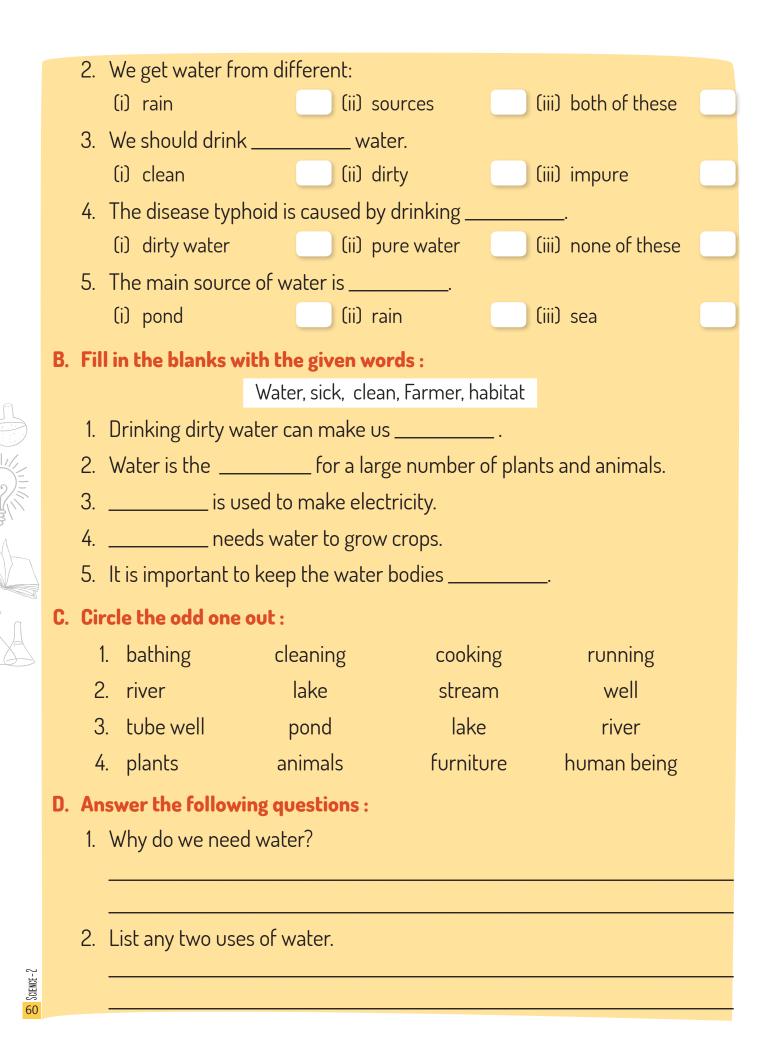
(i) grow

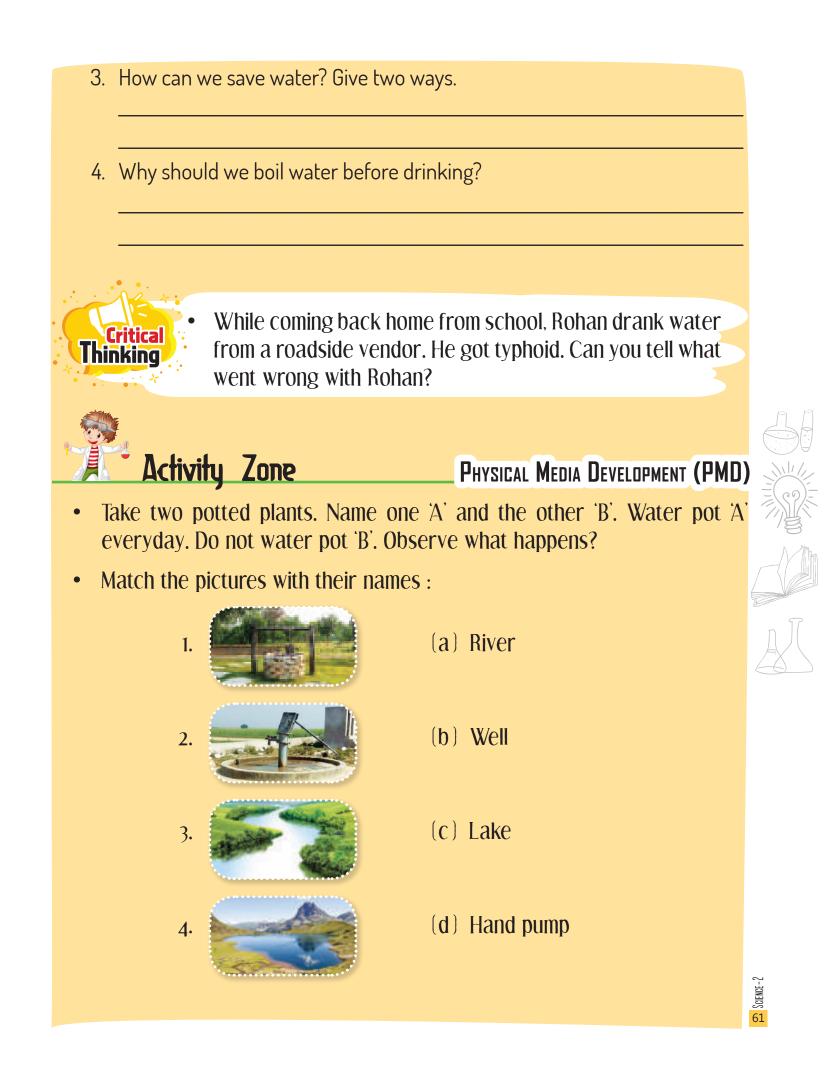
(ii) wash



(Assessment Of Learning Outcome)

Science - 2









- 🔀 Forms of Water
- Water Changes its Forms
- Water Cycle

Pure water is tasteless, odourless and colourless.



Ice (solid)

Water (liquid)

Steam (gas)

Water is the only thing

which occur in all the

three states.

Knowledge

A & Bank

Forms of Water

Water exist in three forms. These are

- Solid : Ice is the solid form of water. Water changes into ice on cooling.
- Liquid: Ice melts to form water on heating.
- Gas : Water changes into vapour on heating.

Water Changes its Forms

Let us see how water changes its form. Water on heating changes into steam or water vapour. This is called **evaporation**.

Let's Understand with an Example

Take some water in a pan and ask an adult to boil it for you. You can see the steam or vapour coming out of the pan. This is the **gaseous form** of water and the process is called **evaporation**.



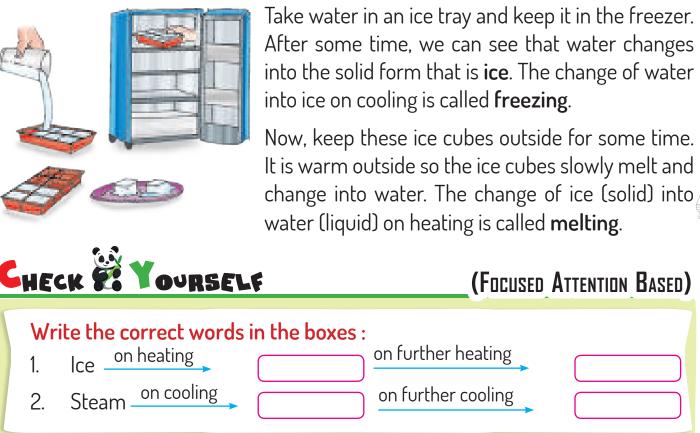


Water vapour on cooling changes into water again.

Now, hold a plate near the mouth of the pan. When the vapour touches the cold plate, it cools downs and changes back to drops of water. This change of vapour into water on cooling is called **condensation**.

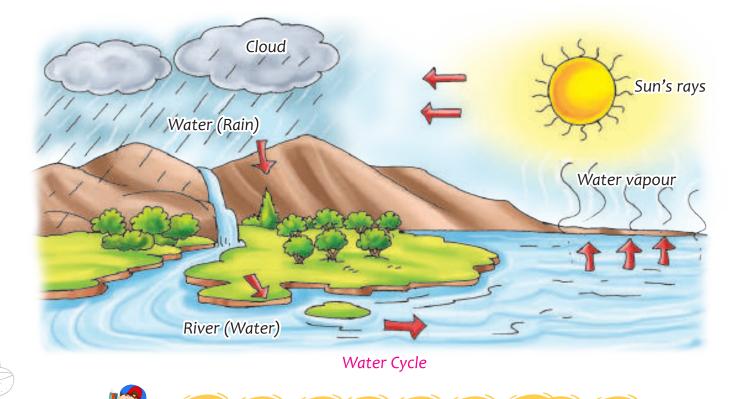
Ice is the **solid** form of water. It has a definite shape and it does not flow like liquids. Water usually found in its natural state is **liquid**.





WATER CYCLE

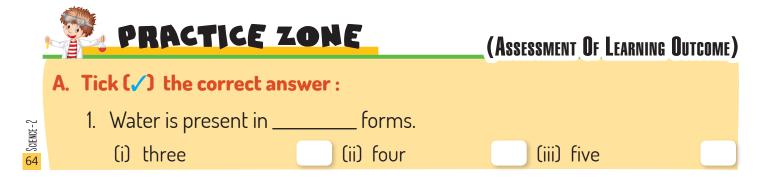
The sun heats the water in rivers, lakes, ponds and seas. This changes water into water vapour. Water vapour rises up in the air and turns into tiny droplets of water. These droplets of water form clouds. When the clouds become heavy, they fall down as rain. This water again flows into rivers, ponds, lakes, etc.

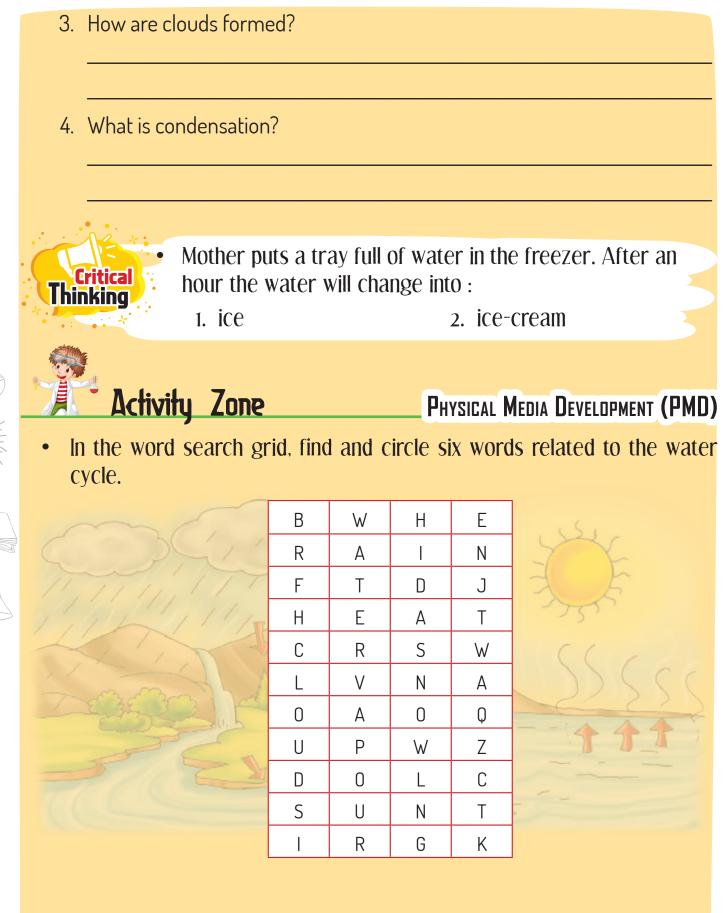


Knowledge Ten percent of the Earth's surface is covered by ice.

🖹 Sum Up Now :

- 🙁 Water has three forms–ice (solid), water (liquid) and steam or water vapour (gas).
- 🙁 On heating, water changes into vapour. It is called evaporation.
- 😕 On cooling, water vapour changes into water. It is called condensation.
- 🙁 Ice on heating changes into water. It is called melting.
- 🙁 Water on cooling changes into ice. It is called freezing.
- Evaporation of water from the sources of water on earth due to heat of the sun and then coming back to earth in the form of rain is called water cycle.





Wind Direction Wind Dire



Weather changes from day to day. It may be sunny, windy, cloudy, rainy etc. The change in weather is caused by the sun, wind, clouds and rain.



Sunny



Windy



Rainy

Knowledge Bank Cloudburst is a sudden, heavy rainfall for a short duration.

Wind Direction

The **direction of the wind** plays a big role in what kind of weather conditions an area has.



North, south, east and west are the four main directions.

Wind Force or Speed

We know that moving air is called **wind**. Wind can be gentle, strong or very strong. When wind blows gently, we call it breezy weather. Strong winds blow on a **windy day**. Very strong winds cause **stormy weather**.





Rain and Snow

68

Remember, when water gets heated, it changes into gas or steam. What happens when water in rivers and other water bodies get heated by the Sun? It rises up to the sky as steam or water vapour. These form clouds. When clouds become heavy with water droplets, we get **rain** or **snow**. Such factors make a day rainy or snowy.





Sunshine

Early morning, people like to sit in the garden or balcony. During this time of the day, the sunshine is weak and the weather is pleasant outside. At about mid-day, the sunshine becomes stronger and the weather outside starts warming up.

So, sunshine affect the weather during the day.



Do you see or feel the early morning weather? Write few lines about it.

Cloud

Clouds affect the **weather**. Very high white clouds are thin and the Sun shines through them. The day is bright. When layers of clouds cover the sky, the day becomes dull.



Sum up Now :

- Carrow Terms such as hot, cold, sunny, cloudy, windy, rainy and snowy are used to define weather.
- Some factors that affect weather are : Wind direction, wind force or speed, rain and snow, sunshine clouds and temperature.

- Mare			18
PRACTICE	ZONE	(Assessment Of Learning Ou	TCOME)
A. Tick (\checkmark) the correct a	nswer :		T
1 change	s from day to day.		
(i) Rain	(ii) Weather	(iii) Wind	
2. Very strong winds c	ause :		
(i) stormy weather	(ii) windy	(iii) breeze	
3. Sunshine affect the	weather during the :		
(i) day	(ii) night	(iii) both of these	
4. When clouds becom	nes heavy, they bring		
(i) wind	(ii) rain	(iii) storm	
B. Fill in the blanks with	the given words :		
gent	le, wind, Weather, Clouds,	clouds	
1 changes v	very frequently.		COLENCE -2

- 2. Wind can be _____, strong or very strong.
- 3. Moving air is called _____.
- 4. _____ affect the weather.
- 5. When layers of _____ cover the sky, the day becomes dull.

C. Write 'T' for true and 'F' for false for the following :

- 1. Weather stays same for a long time.
- 2. The direction of the wind does not affect weather.
- 3. Sun and wind affect the weather.
- 4. We have four main directions.
- 5. Gentle wind causes breezy weather.

D. Answer the following questions :

- 1. What do you mean by weather?
- 2. What is the role of direction of wind?
- 3. How do sunshine affect weather?
- 4. How does rain comes?



It is the rainy season. However, it is not raining when you are off to school. Would you carry an umbrella or raincoat? Why/Why not?





PHYSICAL MEDIA DEVELOPMENT (PMD)

• Spot and circle the names of five things that affect the weather and write in the given box :

V	0	Р	С	Н	J	L	Т
М	Q	R	Т	Х	E	E	E
А	F	А	В	G	J	К	М
R	W	l	Ν	D	М	Q	Р
S	U	Ν	S	Н	l	Ν	E
Ν	R	I	С	S	V	Х	R
0	D	G	L	Н	М	0	А
W	R	G	0	D	E	F	Т
S	0	I	U	L	Т	E	U
E	Q	S	D	Р	А	L	R
С	Н	R	S	R	E	Y	E
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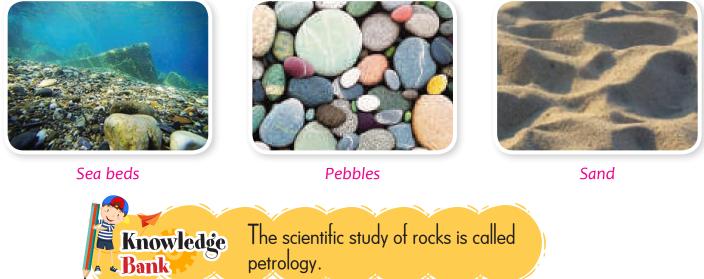


🔀 Minerals

We see many different items made by rocks and minerals in our daily life. Rocks and minerals are building blocks of our dynamic planet .

Rocks

Earth is mostly made up of different kinds of rocks. The mountains, hills and valleys are made up of rocks. Rocks are also found under rivers and sea beds. Pebbles, stones, sand and soils are made up of rocks.



2- Science - 2

Types of Rocks

Rocks are of many types. The table below gives us information on different types of rocks.

Rock	Features	Use
Granite	Hard rock; comes in different colours such as pink, white, grey and black.	To make floor tiles and kitchen slabs.
Sandstone		To make buildings, tiles and roads; Hawa Mahal in Rajasthan is made of sandstone.
Marble	Hard rock; comes in light colours.	To make buildings, statues and floors; Taj Mahal, one of the Seven Wonders of the World is made of white marble; The Lotus Temple in Delhi is another beautiful marble structure.
Coal	Soft, black rock	Used as a fuel for cooking, for making electricity and in factories.
Chalk	Soft, white rock	Chalk is used to paint walls and building and to write on blackboards.
Slate	Soft, mostly grey and black	To make roofs, floors of houses, slates and blackboards.



(Critical Thinking)

Underline the correct answer :

- 1. Rocks are found (only in sea/at many places).
- 2. Marble is a (hard/soft) rock .
- 3. (Sandstone/marble) is a red rock.
- 4. The Taj Mahal is made up of (white/grey) rock.

Minerals

The rocks we see around us are made of minerals. A rock is made up of two or more minerals.

Let us think of a chocolate biscuit as a rock. The biscuit is made of wheat or flour, butter, sugar and chocolate. So, we can say that the biscuit is like a rock and the wheat, butter, sugar and chocolate are like minerals. We need minerals to make rocks.

Types of Minerals

Minerals are of different shapes, size and colours. Different minerals have different uses. Look at the table below to know more about minerals.

Mineral	Features	Use
Quartz	Most common mineral found in rocks, it has a glassy shine.	In watches.
Talc	The softest mineral	In talcum powder and baby powder.
Diamond	It is the hardest mineral.	To cut softer rocks and minerals and another diamond. It is also used in making beautiful jewellery.

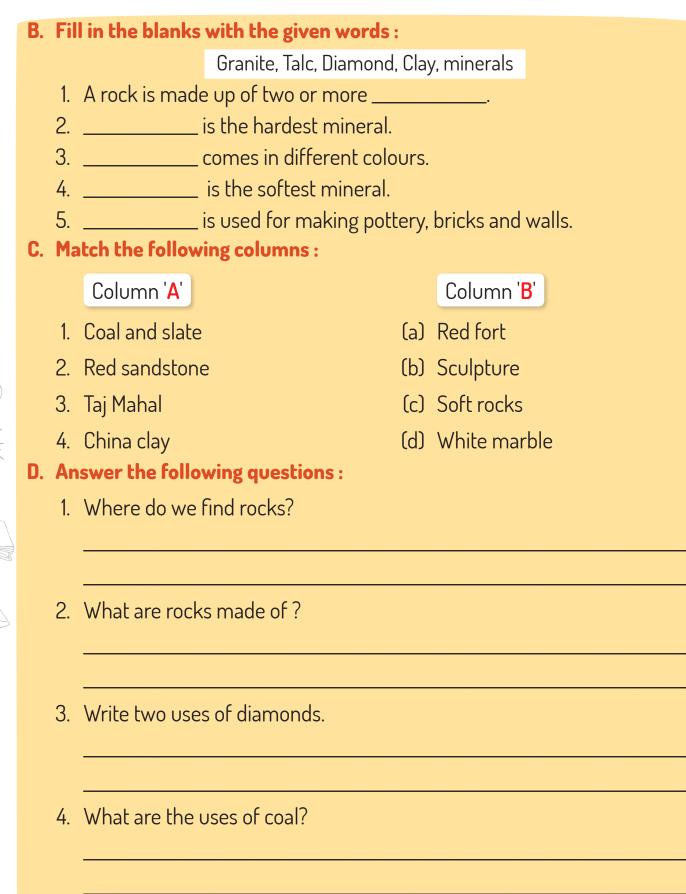
2- Science - 2

Gemstones— emerald, ruby, sapphire and pearl	Hard	They are of great value when cut and polished and used to make jewellery.
Graphite	Soft, black or grey	It is used as the lead of a pencil.
Clay	Soft	Clay is used for making pottery, bricks, walls.

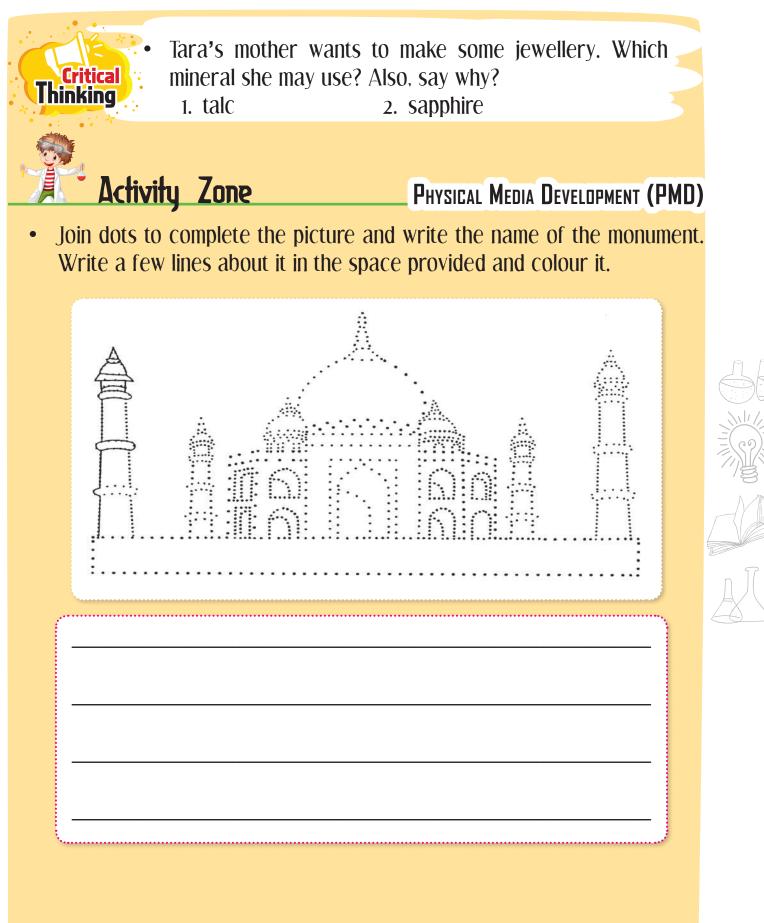


- : The Earth is made up of rocks and minerals.
- 🙁 The rocks we see around us are all made of minerals.
- 🙁 Minerals are of different shapes, sizes and colours.
- 🙁 Rocks and minerals have various uses.

PRACTICE ZONE (Assessment Of Learning Outcome) A. Tick () the correct answer : 1 Slate is used to make : (ii) blackboards (iii) statues (i) kitchen slabs 2. Earth is mostly made up of different kinds of : (i) minerals (ii) rocks (iii) stones 3. Which of these is not a gemstone? (iii) none of these (i) quartz (ii) ruby 4. _____ is soft black rock. (i) Coal (ii) Marble (iii) Slate 5. Clay is : CIENCE-2 (i) soft (ii) hard (iii) none of these



2- Science - 2



THE SUN, LIGHT AND SHADOWS

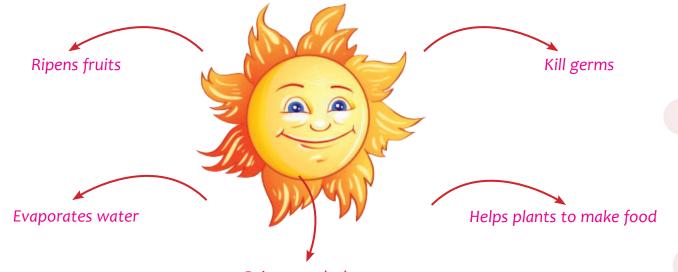
Stepping Up

🔀 The Sun

🔀 Light and Shadow

THE SUN

Sun is a star that we can see during the daytime. The sun is a big ball of fire. It is very big but it looks small because it is very far away from us.



Dries wet clothes

The sun rises in the east and sets in the west. The sun is very useful to us in many ways :

- The sun gives us heat and light.
- The sun makes the day warm and bright.
- The heat of the sun helps to ripen fruits.







- The heat of the sun dries wet clothes.
- Plants prepare food with the help of sunlight.





Knowledge The moon and the stars are always in the sky but due to the light of the sun we cannot see them during daytime.

CHECK R YOURSELF

- 1. Sun is a hot ball of _____.
- 2. _____ kills the germs present on the earth.
- 3. The sun rises in the _____.

Light and Shadow

Light cannot pass through all objects. It cannot pass through your books, bags, etc. A shadow is formed when something comes in the path of light.

Thus, three things are needed for a shadow to form :

- Object (example tree)
- Source of light (Sun)
- A surface (ground)

In the **morning** and in the **evening**, the shadows are **long** as the sun is low in the sky.

At noon, the **sun** is overhead, so the shadow is the **shortest**.

A shadow is always formed in the direction opposite to the source of light.



CIENCE-2

(Focused Attention Based)







Morning shadow

Noon shadow

Evening shadow

If the light is falling on an object from the left side, the shadow is formed on the right side of the object.

If the light is falling on an object from the right side, the shadow will be formed on the left side of the object.



Help the students to focus light on different objects to observe their shadows. Explain how the size of shadow changes with changing positions of the object.



- 😢 The Sun is a big ball of fire.
- 🙁 It gives us heat and light.
- 🙁 It makes the day bright and warm.
- 🙁 At night, there is no sun so, it is cool and dark.
- When the path of light is blocked by an object, a shadow is formed of the object.
- 🙁 Shadows are longer in the morning and in the evening.
- 🙁 Shadows are the shortest at noon.
- 🙁 Shadows are formed in the direction opposite to the source of light.

PRACTICE Z	ONE	(Assessment Of Learning O	JTCOME)
A. Tick (\checkmark) the correct and	swer:		
1. Plants prepare food w	vith the help of :		
(i) sunlight	(ii) air	(iii) wind	
2. The sun is a big ball o	f:		
(i) water	(ii) fire	(iii) sand	
3. In which direction, do	es the sun set?		
(i) East	(ii) West	(iii) North	
4. The shadow is shorte	st at :		A <i>P</i>
(i) noon	(ii) morning	(iii) evening	
5. If the light is coming f	rom the left, shadow v	vill be formed :	
(i) left direction	(ii) right direction	(iii) none of these	
B. Fill in the blanks with th	e given words :		
shad	ow, long, Light, sun, lighl	t, heat	
1. The sun gives us	and	·	n T
2 cannot pas	s through all objects.		
3. When a body blocks t	he light, a is	formed.	
4. Shadows are	in the morning and	evening.	
5. The heat of the	dries wet cloth	nes.	
C. Write 'T' for true and 'F'	for false for the follow	ving :	
1. The sun looks small b	ecause it is very close	to our earth.	
2. The Moon helps the p			
3. In the morning and ev			
4. At night, there is no su		k.	
5. Our shadows always r	move with us.		Science-2
			81

D. Answer the following questions :

Write a short note on 'The Sun'.
Why is the sun useful to us?

3. What is a shadow?
4. Name the three things that are needed for a shadow to form.



Neena planted a sapling in a pot containing moist soil. She placed that pot in the dark. She watered the plant daily but it did not grow. Why did the plant not grow?

Activity Zone

• Colour both the boys and their shadows.

Note : Colour the shadows black.



Physical Media Development (PMD)





Stepping Up

🔀 Natural Things We Use

🔀 Human-made Things We Use

We use many things in our day-to-day life.



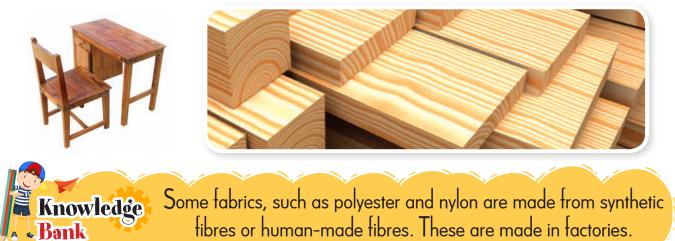
In this chapter, learn about some things we use and what they are made of.

NATURAL THINGS WE USE

Wood

Wood is a natural thing. We get wood from trees.

Wood is strong and long-lasting. It is used to make furniture such as chairs, beds, study tables, dining tables and cupboards.





Fabrics

We wear different clothes in different seasons. Clothes are made of different fabrics, such as cotton, wool and silk. Fabrics are made from thin fibres woven together.



We get these fabrics from plants and animals and are **natural fabrics**.





In summer, we wear cotton clothes. We get cotton from the cotton plant.

In winter, we wear woollen clothes. We get wool from sheep, camels and yaks.





We wear silk clothes in winter and also on special occasions such as festivals and birthdays. We get silk from the silkworm.

Other things such as handkerchiefs, towels, napkins, bedsheets, pillow covers and cushion covers are also made of different fabrics.

HUMAN MADE THIGNS WE USE

Glass

We use things made of glass such as drinking glasses, plates and bowls. Windows, spectacles and looking glasses are also made of glass.

Glass is made by melting sand and minerals together at very high temperature. It can be made



into many different shapes. Thick glass is strong, but thin glass breaks easily.

Plastic

Plastic is not found in nature. They are human-made things.

Plastic is strong and can be given different shapes. Plastic can also be dyed in

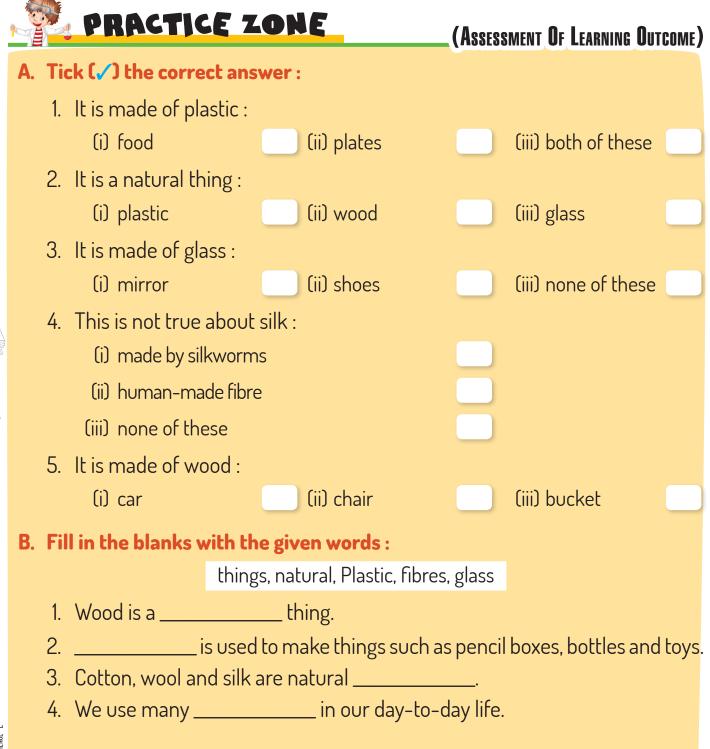


different colours. They are used to make all sort of things such as pencil boxes, bottles and toys.

Plastic is waterproof. It is used to make raincoats that protect us from getting wet in the rain. Plastic gumboots helps us to walk on wet and muddy water.

Sum Up Now :

- 🙁 We use different things in our day-to-day life.
- 💫 Things around us can be natural or human-made.
- 😕 Things are made of wood, glass, fabric and plastic.



5. _____ is made by melting sand and other minerals together at very high temperature.

C. Match the following columns :

Column 'A'

- 1. plastic
- 2. cotton, wool, silk
- 3. wood
- 4. thin glass
- 5. made from fabrics

Column 'B'

- (a) towels, bedsheets and napkins
- (b) furniture
- (c) breaks easily
- (d) waterproof
- (e) natural fibres
- D. Answer the following questions :

1. What is plastic?

- 2. What are clothes made of?
- 3. Is wood a natural thing? Where do we get wood from?

4. How is glass made? Name two things made of glass.



Payal's birthday falls in the month of December. She is buying her birthday dress. Which fabric should she choose?



Activity Zone

Physical Media Development (PMD)

• Look inside your house. Complete the table :

Room	Things made of plastic	Things made of glass	Things made of fabric	Things made of wood
Dining room				
Drawing room				
Kitchen				
Bathroom				
Bedroom				

• Match the following :



- (a) Wool
- (b) Silk
- (c) Furniture
- (d) Plate

		Medel Test Paper-1	
	Tin	ne: 2 hours (Based on Chapter 1 to 7)	M.M. : 40
	A.	Tick (/) the correct answer :	
		1. Which plant grow in desert?	
		(i) cactus 🦳 (ii) lotus 🦳 (iii) grapevine	e 🗌
		2. This is obtained from the juice of the acacia tree :	
		(i) gum 🦳 (ii) rubber 🦳 (iii) oil	
		3is a farm product.	
		(i) Milk 🦳 (ii) Books 🦳 (iii) Pencil	
		4. The brain is located in the	
7		(i) skull 🦳 (ii) liver 🦳 (iii) kidney	
		5. A daily pattern of eating and drinking is called	_
		(i) food (ii) diet (iii) both	
	B.	Fill in the blanks :	
		1. We must drink plenty of	
		2. We should not go alone into a	
		3 and are called by biennial plant.	
		4. Cocoa beans are crushed to make	
		5. A guards our house.	
	C.	Write 'T' for true and 'F' for false for the following :	
		1. Cereals and pulses are known as food grains.	
		 Earthworm helps to make the soil fertile. Muscles are hand and stiff 	
		3. Muscles are hard and stiff.	
		 We should never skip breakfast. Never run after a vehicle when on a road. 	
	D		
	D.	Name any two : 1. Herbivorous Animals	
		2. Carnivorous Animals	
		2. Carrivorous Animals 3. Omnivorous Animals	
			—— 89

	Column ' A '		Column ' <mark>B</mark> '
1.	leaves	(a)	spice
2.	beans	(b)	oil
З.	mustard	(c)	ginger
4.	coriander	(d)	tea
	stem	(e)	coffee
	swer the following		
1.	What are the aqua	tic plants?	
2.	Where do we get t	ea and coff	fee from?
-			
3.	What do you mear	n by pet anii	mals ?
4.	What are the three	e categories	s of animals?
		0	
5.	Why is physical ex	ercise impo	ortant?
6.	List any two safety	rules to be	e followed on the road.

				<u></u>	<mark>st Paper</mark> - hapter 8 to 14		
7	Tim	ne:	2 hours		napiek o io n	M./	И.:40
	Α.	Ti	ck (🗸) the cori	rect answer :			
		1.	Moving air ha	s a lot of			_
			(i) force	🦳 (ii) we	ight	(iii) none of these	
		2.	The disease ty	yphoid is caused by	drinking	·	
			(i) dirty wate	r 🦳 (ii) pur	e water	(iii) none of these	
		З.	The change o	f water into water v	apour on heatir	ng is called	_
			(i) condensat	ion 🦳 (ii) eva	poration ((iii) none of these	
		4.	When cloud b	ecomes heavy, they	/ bring	<u>_</u>	_
7			(i) wind	🦲 (ii) rai	n ((iii) storm	
		5.	is	soft black rock.			
			(i) Coal	🦲 (ii) Ma	rble	(iii) Slate	
	B.		ll in the blanks				
				blocks the light, a _			
		2.	We use many	'in our	day-to-day life		
				t to keep the water		·	
		4.	;	air is not good for ou	ur health.		
		5.	Water on hea	ting changes into			
	C.	W	rite <mark>'T</mark> ' for true	and 'F' for false for	the following :		
		1.	Sun and wind	affect the weather			
		2.	The moon he	lps the plants to ma	ke their food.		
		З.	Water cycle g	oes on in nature.			
		4.	We have four	main directions.			
		5.	Our shadows	always move with u	IS.		
7	D.	Ci	rcle the odd or	ne out :			
		1.	bathing	cleaning	cooking	running	
		2.	river	lake	stream	well	Solence-2 Solence-2
							91

	3.	tube well	pond	lake	river	
	4.	plants	animals	furniture	e human being	
E.	Ma	tch the following	columns :			
		Column ' A '		Column ' B '		
	1.	plastic	(a)	towels, bed she	eets and napkins	
	2.	cotton, wool, silk	(b)	furniture		
	З.	wood	(c)	breaks easily		
	4.	thin glass	(d)	waterproof		
	5.	made from fabric	s (e)	natural fibres		
F.	An	swer the followin	g questions :			
	1.	What does air cor	ntain?			
	2	Why should we be	oil water befo	re drinking?		
	<u> </u>			6 di 11 11 16.		
	З.	How to sunshine	after weather	?		
	4	What are the use	s of coal?			
	4.	what are the use:				
	5.	Name the three t	hings that are	needed for a sha	adow to form.	
	0					
	Ь.	What are clothes	made of?			

Science -2 8