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Department Of School Education

Untouchability is Inhuman and a Crime

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MATHEMATICS

2

Term - III



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MATHEMATICS
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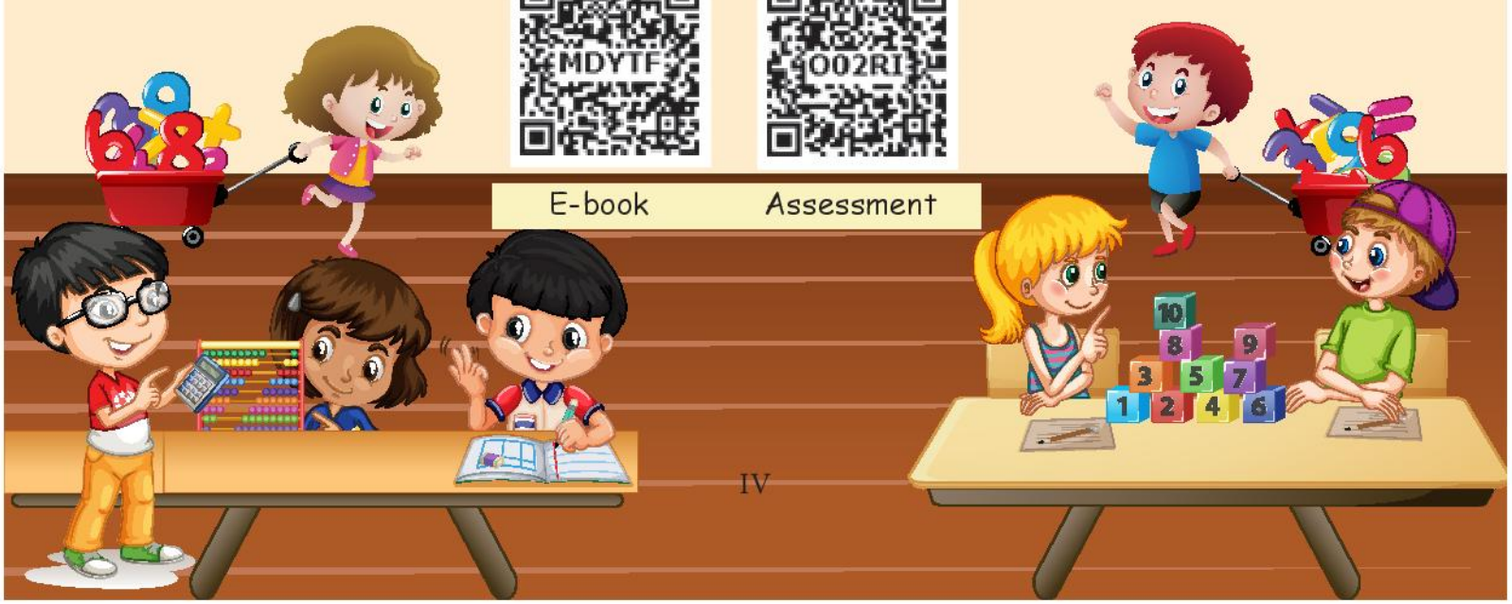
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UNIT 1

Numbers

1.1 Odd and Even numbers

Keywords
Pair
Odd
Even

Travel Through

Pairs

Some of the objects that are available in pairs are given below.



Learn

odd and even

Let us consider two objects having same properties. For example, a set of two anklets, a set of two bangles.





J2FKZ



Numbers that can be arranged in twos completely are called even numbers.

Here, 6 birds make 3 sets of twos. So, 6 is an even number.



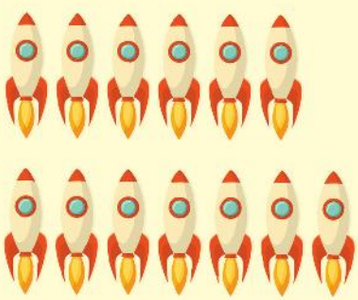
Objects that cannot be completely arranged in twos are called odd numbers.

Here out of 5 birds, 2 sets of twos can be made. But 1 bird is left. Hence 5 is an odd number.

2nd std Maths III-term Unit_1_Numbers.indd 1 11/10/2022 15:16:59

Practice

Group the objects in twos and find whether they are even or odd. One is done for you.

Number of objects	Objects	Odd/Even
5		Odd
		
		
		
		

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Learn

Let us arrange the given seeds in twos according to the number and check whether they are odd or even.

1	2	3	4	5	6	7	8	9	10
									
Odd	Even	Odd	Even	Odd	Even	Odd	Even	Odd	Even
11	12	13	14	15	16	17	18	19	20
									
Odd	Even	Odd	Even	Odd	Even	Odd	Even	Odd	Even

From the above table, we can conclude that the numbers 1,3,5,7,9,11,13,15,17,19 and so on have one set of seed that cannot be arranged in twos and they are called odd numbers.

The numbers 2,4,6,8,10,12,14,16,18,20 have all the seeds arranged in twos and hence they are called even numbers.

Look at the odd numbers given above. These numbers have any one of the numbers 1,3,5,7 and 9 in their one's place.

Look at the even numbers given above. These numbers have any one of the numbers 2,4,6,8 and 0 in their one's place.

Besides, we can observe that odd and even numbers come alternatively.

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Game

- This game is played by two players using tamarind seeds. First the tamarind seeds are made into two equal groups. Let player 1 take a handful of seeds from one of the groups and player 2 guess whether the number of seeds in his hand is odd or even.
- Once player 2 gives the answer as odd or even. Player 1 arranges the seeds that are in his hands in twos to check the answer.
- If the guess made by the player 2 is right, player 1 gives all the seeds in his hand to player 2 and the chance of playing passes to player 2.
- If the guess made by the player 2 is wrong, player 2 has to give equal number of seeds to player 1 and the next chance of playing will be given to player 1.
- The game continues like this and the player with more number of seeds wins the game.

Practice

Circle the odd number and draw box for the even number.

i)	71,	64,	45,	82	vi)	16,	21,	33,	30
ii)	9,	7,	11,	8	vii)	88,	74,	11,	53
iii)	10,	17,	27,	16	viii)	13,	92,	74,	66
iv)	94,	37,	26,	69	ix)	8,	18,	83,	86
v)	25,	52,	81,	18	x)	96,	69,	72,	27

Write the next five even numbers.

i) 24, 26, __, __, __, __, __
ii) 40, 42, __, __, __, __, __
iii) 88, 90, __, __, __, __, __
iv) 8, 10, __, __, __, __, __
v) 66, 68, __, __, __, __, __

Write the next five odd numbers.

i) 7, 9, __, __, __, __, __
ii) 21, 23, __, __, __, __, __
iii) 83, 85, __, __, __, __, __
iv) 49, 51, __, __, __, __, __
v) 71, 73, __, __, __, __, __

Try This

Ramya wants to form all possible two-digit numbers using only the odd numbers. Help her to form two-digit numbers using 1,3,5,7,9.

__, __.

There are _____number of odd two-digit numbers.

Kavitha wants to form all possible two-digit numbers using only the even numbers. Help her to form two-digit numbers using 0,2,4,6,8.

__, __.

There are _____number of even two-digit numbers.

2nd std Maths III-term Unit_1_Numbers.indd 4 11/10/2022 15:17:24

Pleasure Time

Number chart 1-99

Observe the number chart and answer the following questions.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	

i) Write all the odd numbers between 30 and 60.

_____

ii) Write all the even numbers between 70 and 99.

_____

iii) Write all the odd numbers between 1 to 40.

_____

iv) Starting from 10, colour the numbers by skip counting in tens. What can you say about these numbers.

_____

v) Colour the odd numbers in the chart with blue. Observe the uncoloured numbers. What can you say about them.

_____

Try This

Using the given digits, form all possible two-digit odd numbers without repetition of digits.

1) 3,6 ____ 2) 8,1 ____ 3) 5,2 ____

4) 9,4 ____ 5) 0,7 ____ 6) 5,1 ____

Among the pair of digits given above, is there any pair of number with which you cannot form two-digit odd number?
Write such pair of digits. ____

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1.2 Ordinal and cardinal numbers

Travel Through Ordinal and cardinal numbers

Maya had some grains to feed the birds. She threw the grains on the ground. Some birds and animals came there one by one and had their food. The order they had the food is given below.

1



Crawing crow came first.

2



Pretty parrot came second.

3



Majestic dove came third.

4



Sweet myna came fourth.

5



Cute squirrel came fifth.

6

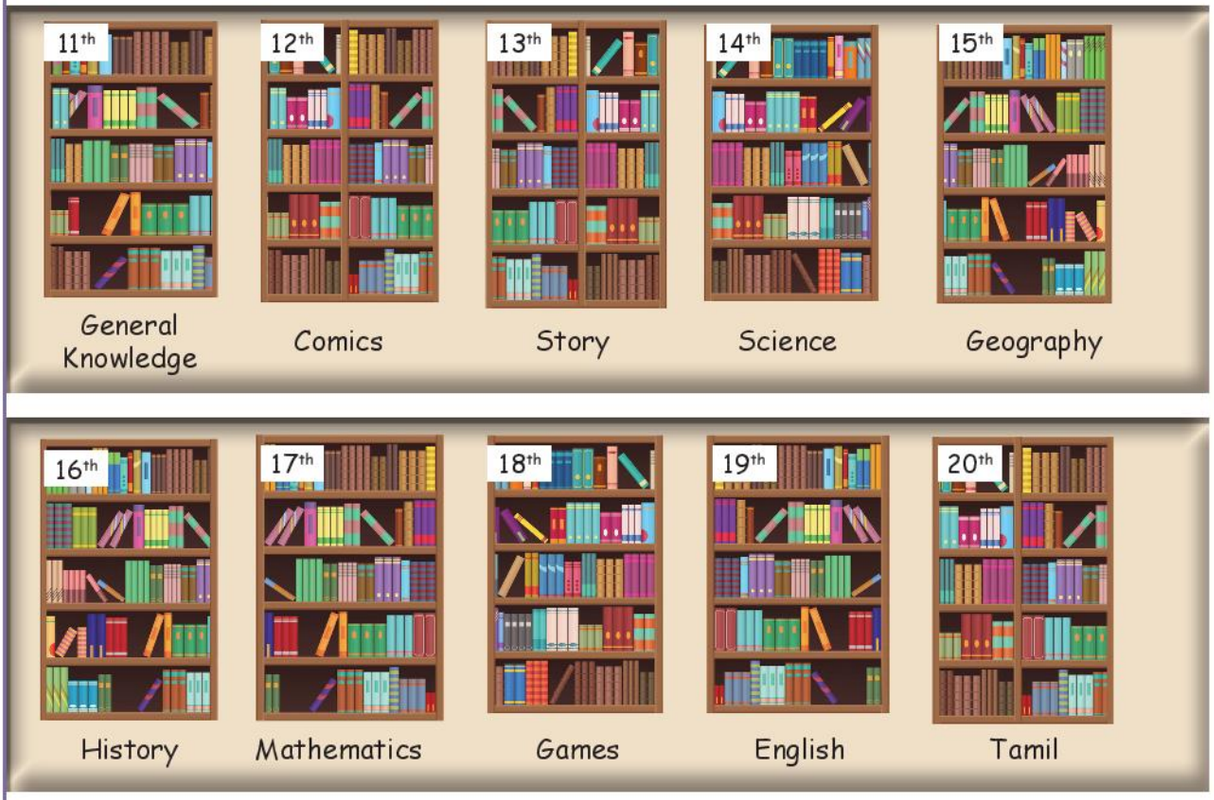


Naughty monkey came sixth and finished all the grains.

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Learn

In a library, the first 10 racks were allotted for magazines and dailies. Books that are arranged in different racks from 11th onwards as shown below.



Answer the following questions from the above picture.

i) Story books are arranged in the _____ rack.

ii) Books on history can be found in the _____ rack.

iii) Between which two racks are mathematics books placed? _____. and _____.

iv) The English books are next to the _____rack.

v) General Knowledge books are in the ____ rack.

vi) My favourite books are in the _____ rack.

2nd std Maths III-term Unit_1_Numbers.indd 7 11/10/2022 15:17:29

Learn



14th of November, 29th of November are called ordinal numbers. It represents the order of a number.

14, 29 are cardinal numbers. They are counting numbers.

Practice

Answer the following questions based on the above calendar.

i) 3rd friday of November falls on _____.

ii) 7th of November 2019 falls on _____.

iii) 1st sunday of the month falls on _____.

iv) The day 15.11.2019 falls on _____ week of November.

v) If 2nd of November falls on saturday then _____of November will be the 3rd saturday of the month.

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Pleasure Time

i) Write the mobile number of your father or mother.

Pick out and write the digits in the following positions.

7^{th} digit is _____ 6^{th} digit is _____ 2^{nd} digit is _____

The last digit appears in _____ place.

ii) Find out who am I?

Here are the clues to find it out.

- I am 5 lettered word.
- You can sit on me.
- If you remove my first letter. I will be on your head.
- If you remove my second letter you can breathe me (in and out); I am everywhere.

iii) Here are the clues to find out.

- I am 8 lettered animal.
- My first and third letter are same.
- My last 3 letters refer to a small insect that you could find anywhere where there is sweet but I won't fly.
- My second letter is the first letter of the word that represent the national flower.
- I am the biggest animal on land.

iv) Find the name of the flower.

96ZOX

- The Fifth letter is 'F'.
- The Second letter is 'H'.
- The Fourth and nineth letter is 'E'.
- 'O' will come in third and seventh position.
- The Tenth letter is 'R'.
- The Eigth letter is 23^{rd} letter in the sequence of alphabets.
- The First letter is 19^{th} letter in alphabet's list.
- The Sixth letter is twelfth letter of alphabets.

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1.3 Repeated Addition

Travel Through Footwear Shop

Mugilan and Yazhini went to a footwear shop. By the time they entered the shop they saw a few of their friends buying footwear. To their surprise, they found the shop was left empty after sometime.



So, they returned home without buying footwear. Can you say, why? Read the following conversation. Mugilan and Yazhini explained the situation to their mother.

Yazhini : Mom, I saw chitu , She flew away with 2 sets of 2 slippers (2+2=4)

Mother : Oh! I see.

Mugilan : I saw pussy in the shop. It went away with 3 sets of 4 slippers (4+4+4 = 12)

Mother : Is it so?

Yazhini : Mom! The fly selected 4 sets of 6 shoes. (6+6+6+6= 24).

Mother : What happened next?

Mugilan : Spider chose 5 sets of 8 shoes. (8+8+8+8+8=40) If none of the slippers was left in the shop. Can you guess who came next ?

Yazhini : Finally Centipede came and emptied the shop.

Teacher's Note:

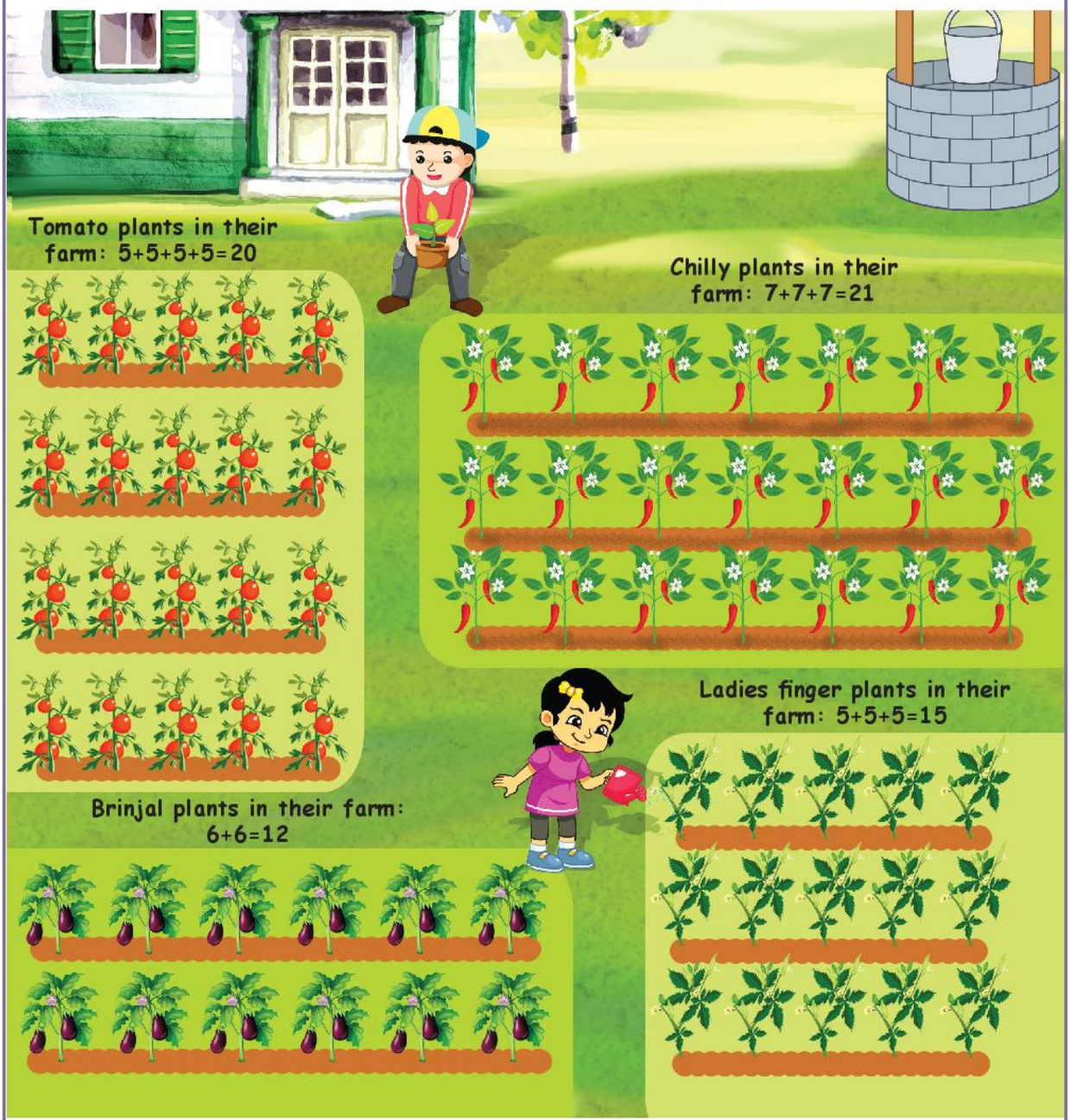
Teacher shall narrate the situation to explain the concept of repeated addition.

2nd std Maths III-term Unit_1_Addition.indd 10 9/1/2022 5:33:21 PM

Learn

Vegetable farm

Agilan and Azhagi are interested in gardening. In the leisure time, they are always found in the vegetable garden in the backyard. They have four types of vegetable plants. Let us visit the garden.



Teacher's Note:

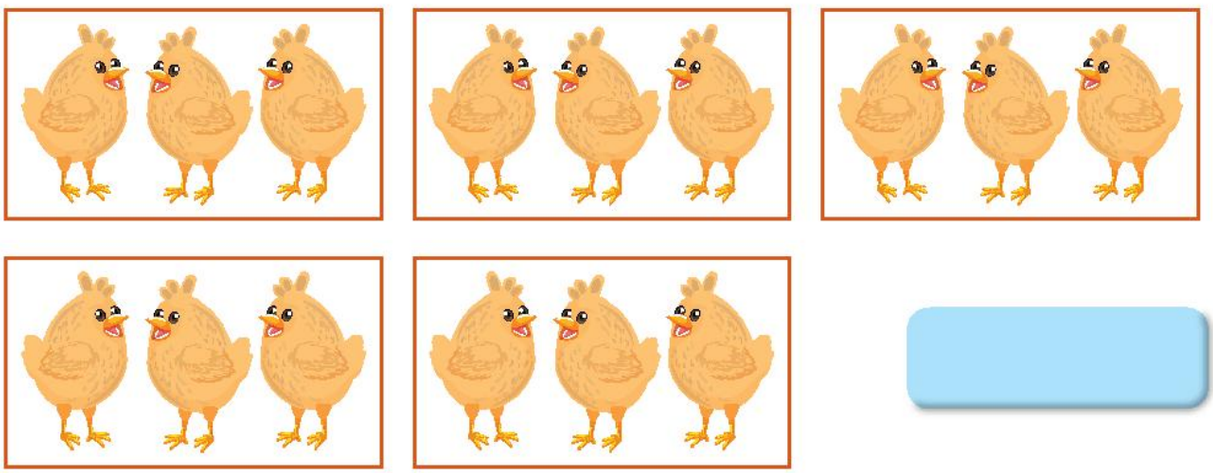
Teacher can create different situation for repeated addition and make children practice in class.

2nd std Maths III-term Unit_1_Addition.indd 11 9/1/2022 5:33:21 PM

Practice

Use repeated addition to find the total.

1. There are 5 groups. There are 3 chicks in each group. How many chicks are there altogether?



2. There are 4 bunches. There are 6 bananas in each bunch. How many bananas are there altogether?



3. There are __ trays. There are __ eggs in each tray. How many eggs are there altogether?



Teacher's Note:

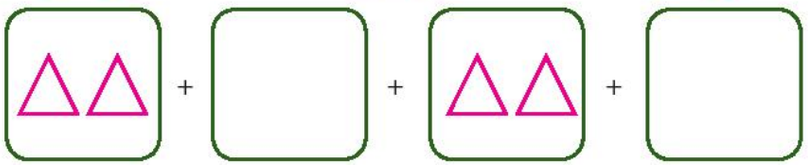
Teacher can make children observe that repeated addition of even numbers is even but repeated addition of odd numbers is either even or odd.

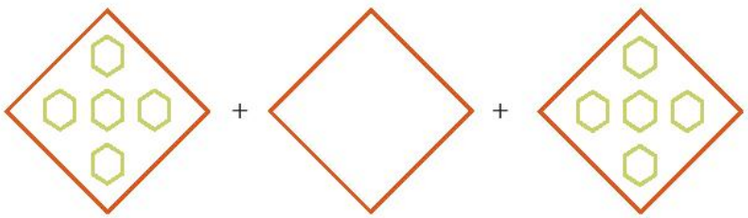
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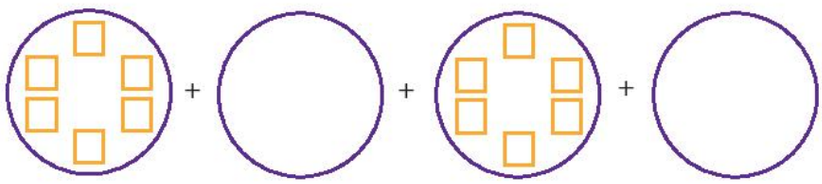
Pleasure Time

Draw the missing figures and complete repeated addition fact.

i.  4+4+4=12

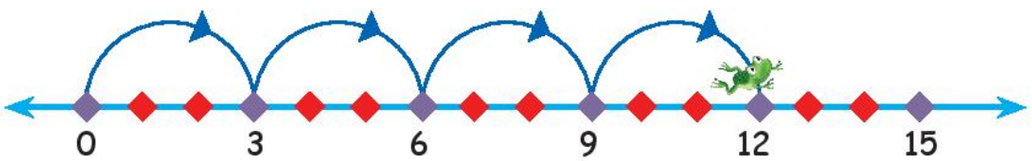
ii. 

iii. 

iv. 

Learn

Let us learn repeated addition using number line.



Start from 0 and leap in three's upto 12.

Frog will reach 12 in 4 leaps of 3 units each.

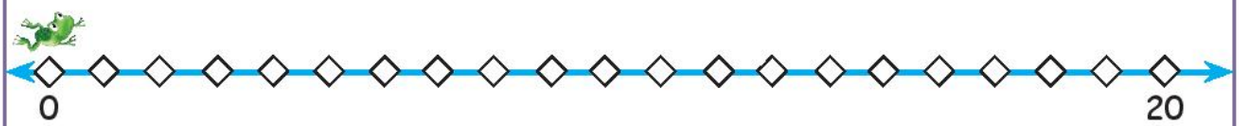
The frog can leap 3 units distance in one attempt.
After the 4th attempt the distance covered by the frog will be 12 units it is shown as 0+3=3; 3+3=6; 6+3=9; 9+3=12 that is 3 when repeatedly added 4 times gives 12 which can be expressed as 3+3+3+3=12 units.

2nd std Maths III-term Unit_1_Addition.indd 13 9/1/2022 5:33:26 PM

Practice

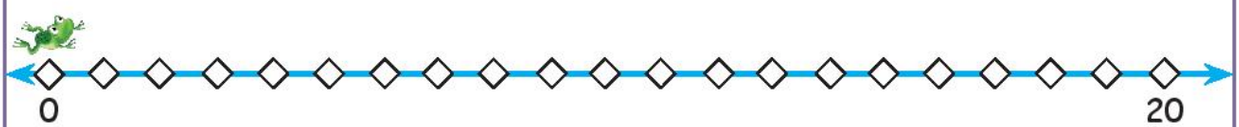
For each of the distances given below, draw the leaping positions of the frog on the line to reach 20.

i) one leap covers 2 units distance.



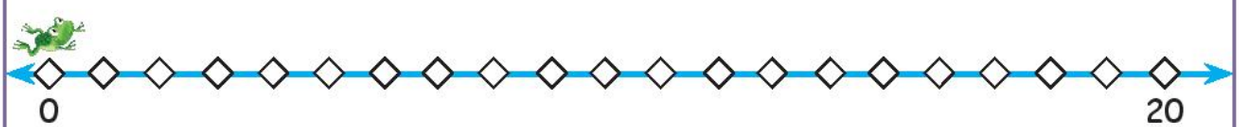
Repeated addition Facts _____ Number of jumps _____

ii) one leap covers 4 units distance.



Repeated addition Facts _____ Number of jumps _____

iii) one leap covers 5 units distance.



Repeated addition Facts _____ Number of jumps _____

Mental Maths

1. Aditya bought 6 packets of groundnut balls. Each packet had 5 groundnut balls. How many groundnut balls did he buy?
2. There are 10 boats. Each boat can accomodate 5 children in it. How many children are there in all?
3. Ranjith had a bag that can hold 5 note books. If he had 6 such bags then how many note books does he have in total?
4. Maghizhini saves 10 rupees a day. How much will she save in 7 days?
5. There are 7 plates. Each of the plates has 3 fruits in it. How many fruits are there in all?

2nd std Maths III-term Unit_1_Addition.indd 14 9/1/2022 5:33:26 PM

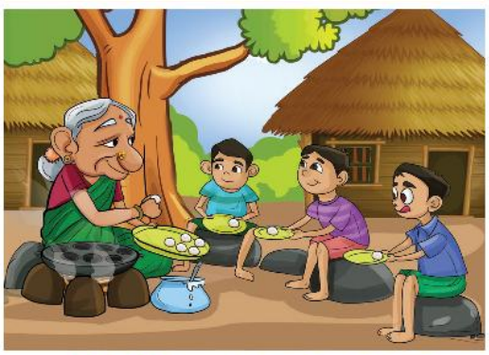
1.4 Repeated Subtraction

Travel Through

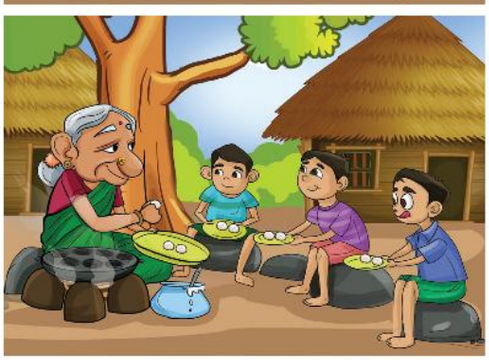
Ezhilan, Kumaran and Iniyan went to grandma chinnathai's house for holiday. She prepared tasty paniyarams for them. Observe the way she shared the paniyarams with them. How many paniyarams does each child get?



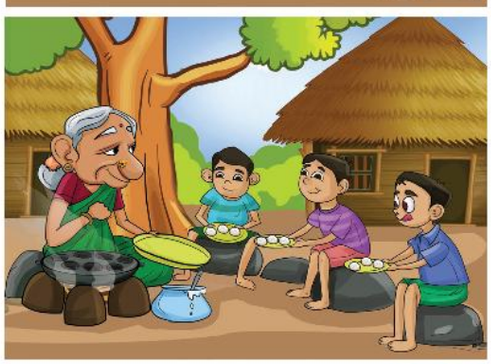
Kumaran : Wow! Grandma! Paniyarams, I love them.
Ezhilan : I want more.
Iniyan : No ! I want more.
Grandma : Don't worry children. I will give you equally.



Grandma : I have 9 paniyarams. I will give you one by one.
Ezhilan : All of us got 1 and 3 paniyarams are over.
Kumaran : You have 6 Paniyarams grandma.
Iniyan : We can write the same as 9-3=6.



Grandma : This is the second round.
Iniyan : You can again give us one paniyaram each, granny.
Kumaran : Now, You have 3 paniyarams left grandma.
Ezhilan : This can be written as 6-3=3.



Grandma : Yes! Then I guess I can give another round. This is the third round.
Ezhilan : Wow ! The third one grandma.
Kumaran : We all have three paniyarams each and your plate is empty grandma.
Iniyan : So, it is 3-3=0.

So, 9-3=6; 6-3=3; 3-3=0.
From 9 we can take away 3 paniyarams 3 times.

2nd std Maths III-term Unit_1_Subtraction.indd 15 9/1/2022 5:37:38 PM

Learn

One day, Ravi saw a tree full of jamun fruits. The gardener gave him more fruits.



He counted them. There were 20 fruits.
Ravi has 20 jamun fruits. He wants to give them to 5 of his friends. He distributed them one by one.

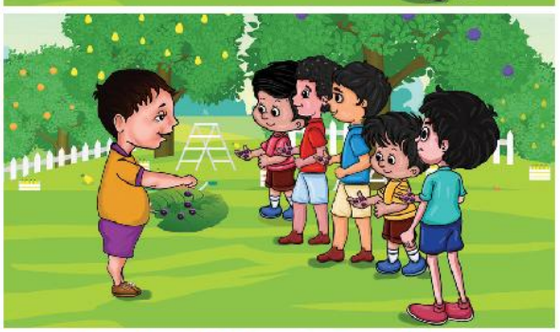


First, He gave one jamun fruit to each of them which can be expressed as 20-5=15.

4EOVD



Ravi is left with 15 jamun fruits. He gives one more jamun fruit to each of them in the second time This can be written as 15-5=10.



Now, Ravi is left with 10 jamun fruits. He again gives 1 jamun fruit to each of his 5 friends. We write this as 10-5=5.



Now, Ravi is left with 5 jamun fruits. He again gives 1 jamun fruit to each of his 5 friends. We write this as 5-5=0. Finally, Ravi's bag is empty. He gives 5 fruits four times.

He can distribute 20 fruits to 5 of his friends 4 times.

2nd std Maths III-term Unit_1_Subtraction.indd 16 9/1/2022 5:37:38 PM

Practice

1. If grandma chinnathai had 12 paniyarams, how many paniyarams will each one of her 3 grandsons get?

To begin with, we start with 12 paniyarams and distribute them to 3 grandsons and so 12-3=9. Complete the remaining repeated subtraction facts in the table given below.

12	-	3	=	9
	-		=	
	-		=	
	-		=	

Each grandson gets _____ paniyarams.

2. If grandma had 20 paniyarams, and there are 4 children, how many paniyarams will each child get?

Complete the subtraction facts in the table given below.

	-		=	
	-		=	
	-		=	
	-		=	
	-		=	

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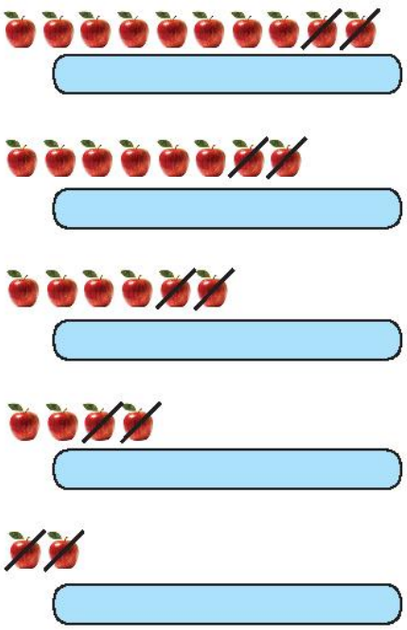
Each child gets _____ paniyarams.

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Pleasure Time

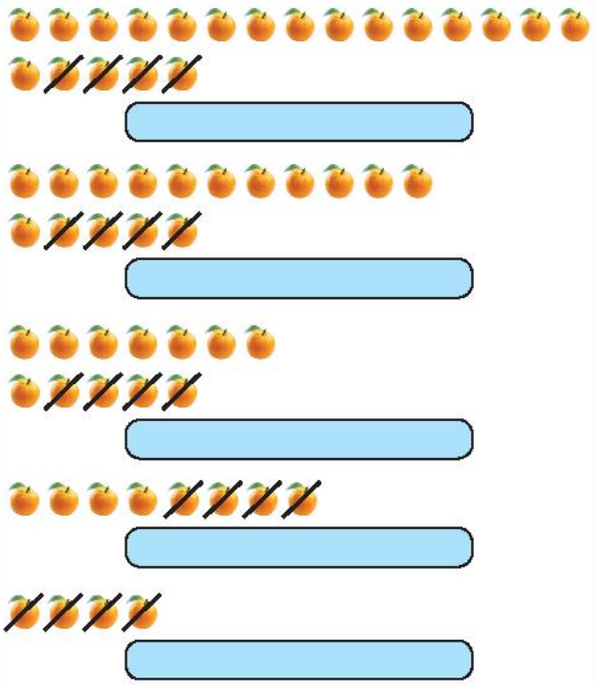
Write the subtraction facts for following.

i. Subtract 2 repeatedly from 10



Number of times '2' is subtracted to get 0 _____

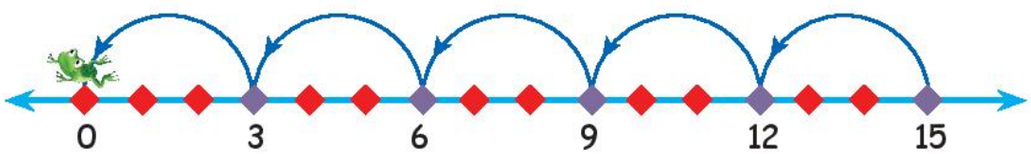
ii. Subtract 4 repeatedly from 20



Number of times '4' is subtracted to get 0 _____

Learn

Let us do repeated subtraction using number line.



The frog can leap 3 units in one attempt. If the frog wants to return to its original position from 15 then it can be shown using number line as given above.

Start from 15 and leap in three's upto 0.

Frog will reach 0 in 5 leap of 3 units each.

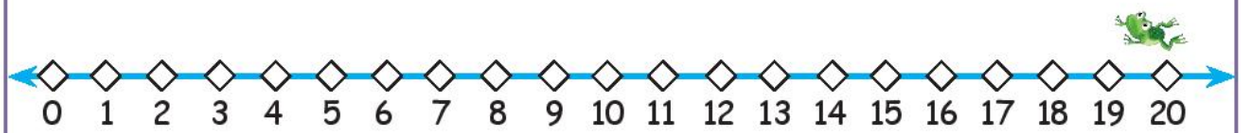
It has jumped 5 times starting from 15 to reach 0. That is 15-3=12; 12-3=9; 9-3=6; 6-3=3; 3-3=0, which gives 15-3-3-3-3-3 = 0

2nd std Maths III-term Unit_1_Subtraction.indd 18 9/1/2022 5:37:45 PM

Practice

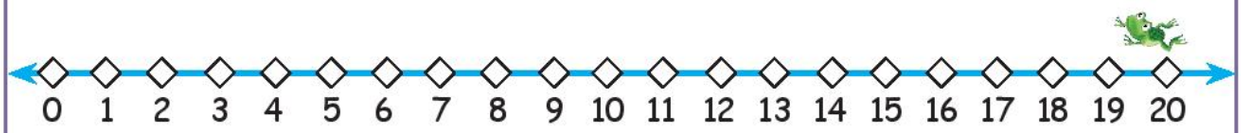
Draw the leaping position of the frog on the line to return to 0.

i) 2 units distance



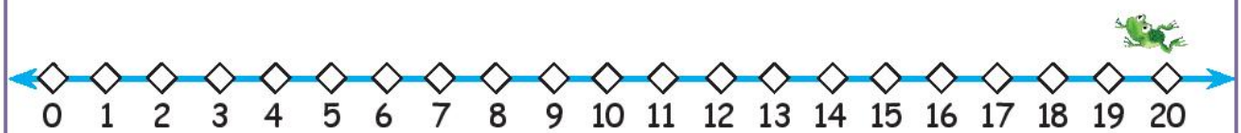
Repeated subtraction Facts _____ Number of leaps _____

ii) 5 units distance



Repeated subtraction Facts _____ Number of leaps _____

iii) 4 units distance



Repeated subtraction Facts _____ Number of leaps _____

Mental Maths

1. Vanitha had 50 mangoes and she made packets of five mangoes each and sold them. How many packets does she make?
2. There are 30 notebooks in a box. If 6 notebooks are to be given to each student, how many students will get the note books?
3. 20 members planned to cross the river by boat. Each boat can carry 4 members. How many time the boat needs to take them?
4. Mani has 15 rupees with him. If he wants to buy newspaper by spending 3 rupees a day, for how many days can he buy the news papers?
5. Kavya's uncle gave her 20 date fruits and asked her to eat 2 fruits a day. How many days can she eat the fruits?

2nd std Maths III-term Unit_1_Subtraction.indd 19 9/1/2022 5:37:45 PM

UNIT 2

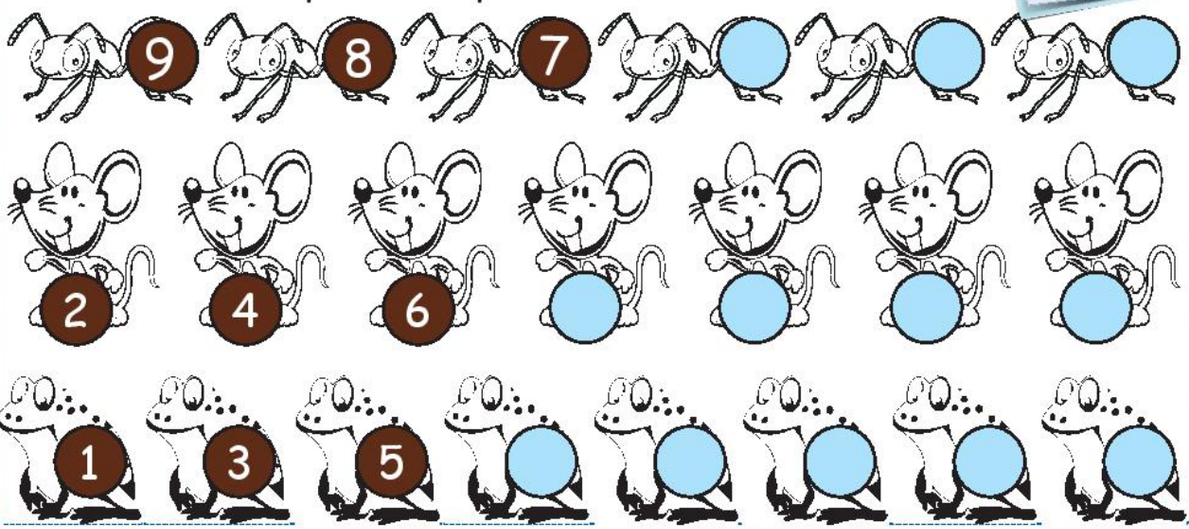
Patterns

2.1 Patterns in numbers

Keywords
Rule
Arrange
Order

Recall

Observe and complete the patterns in numbers.



Travel Through

Roll and Scroll game

- Two students can do the activity.
- Make a number board with numbers from 1 to 37 as shown in the picture.
- The first player throws a dice and a number appears on the face of the dice say 2.
- The other player places a coin on the number 2 and skips to number position in twos such as 4,6,8,10 and so on till the last number. The first player records each of the number positions.

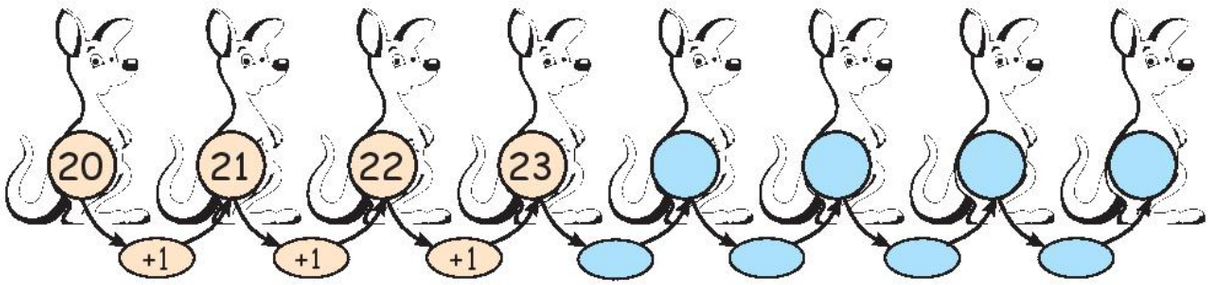


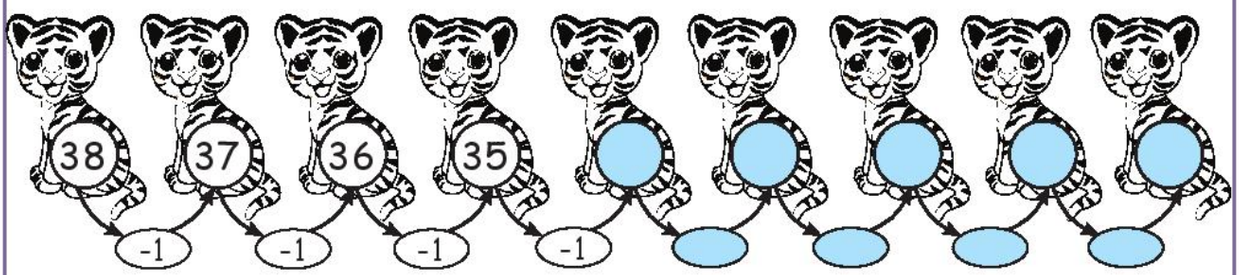
- Now, the second player gets the chance to throw the dice. When the number 2 appears again the player tells all the number positions jumped orally. If he gets a number 3, then the first player moves a coin by skip counting in threes.
- The second player record each of the number positions jumped. The above procedure is continued till the players are familiarised with the number patterns starting from 2, 3, 4, 5 and 6.

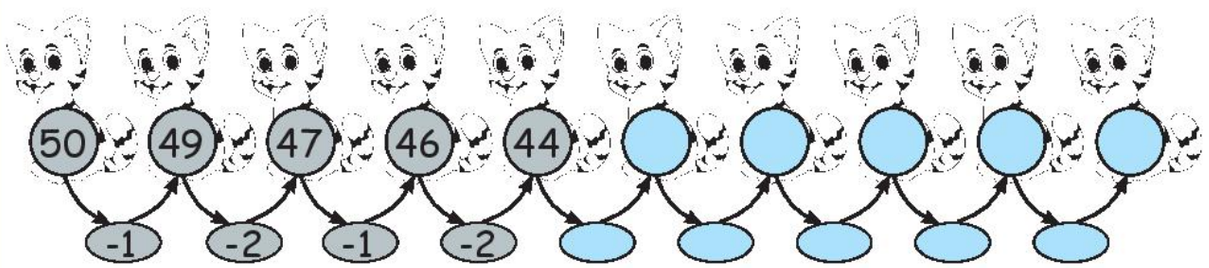
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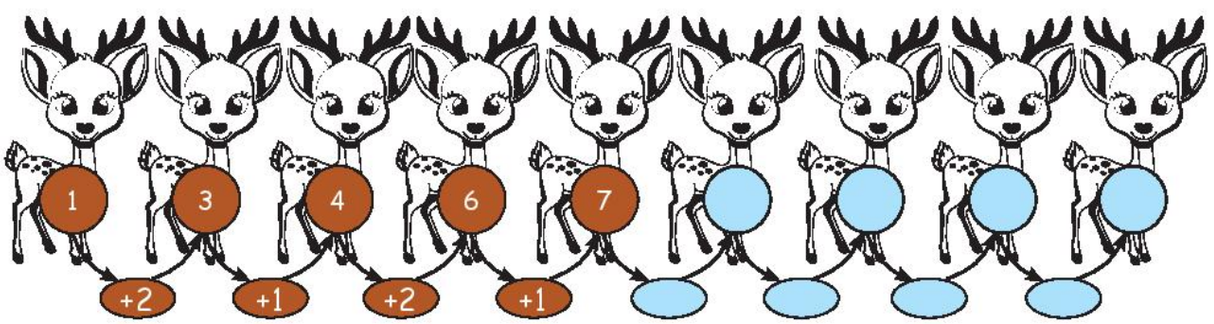
Learn

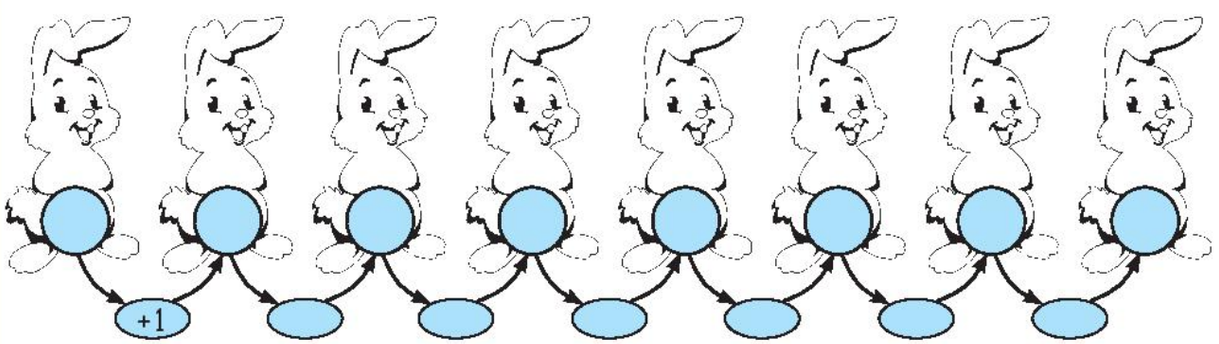
Find the rule and complete the patterns.







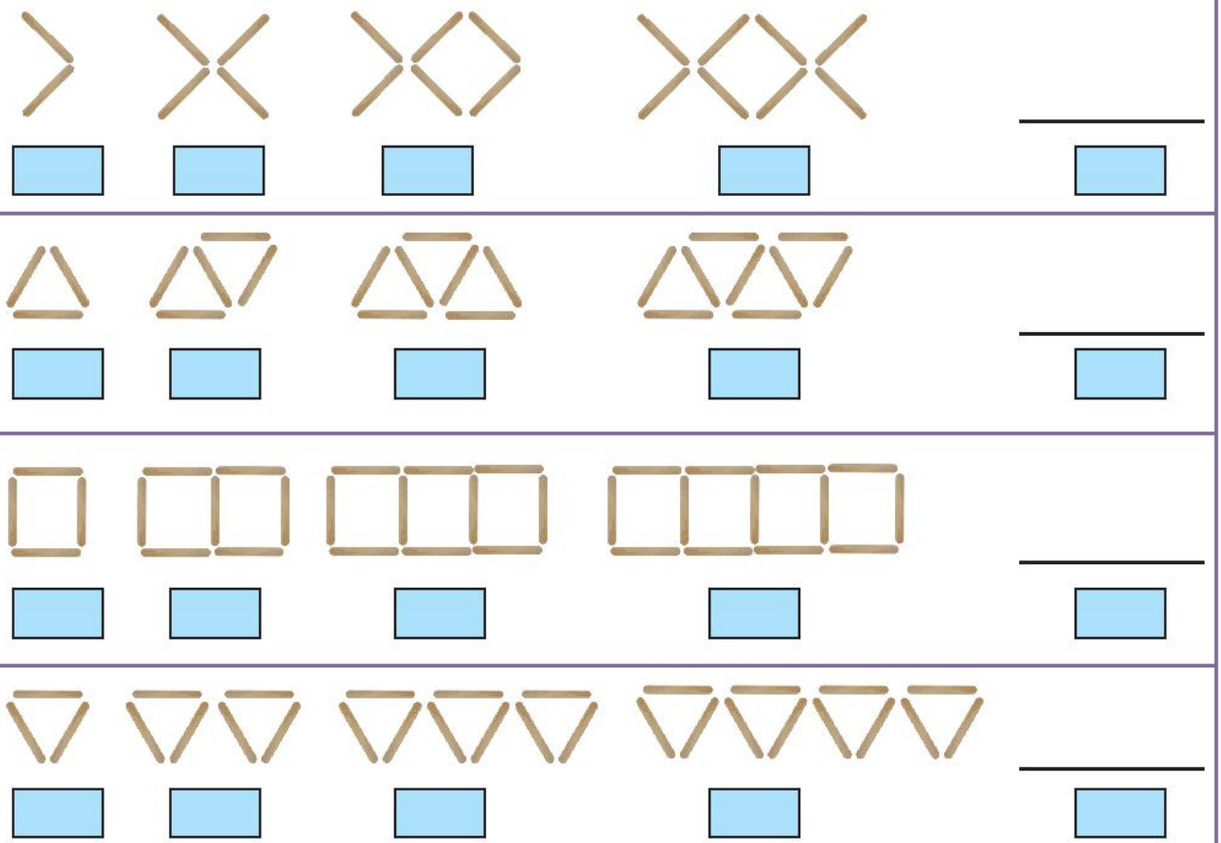




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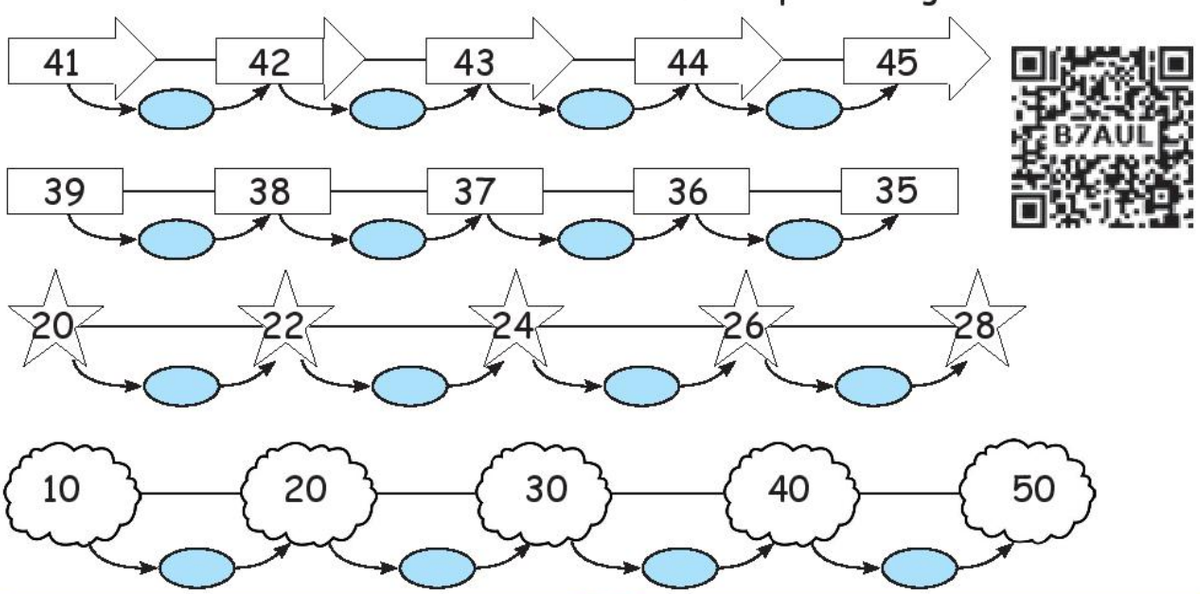
Activity

Count and write the number of ice sticks and complete the patterns using the rules.



Practice

Find the rule and write them in each of the pattern given below.



B7AUL

2nd std Maths III-term Unit_2.indd 22 9/1/2022 5:41:44 PM

Pleasure Time

1) Write the number patterns for the given instructions.

i) The last number is 21. The first number is 13. Write the rule.



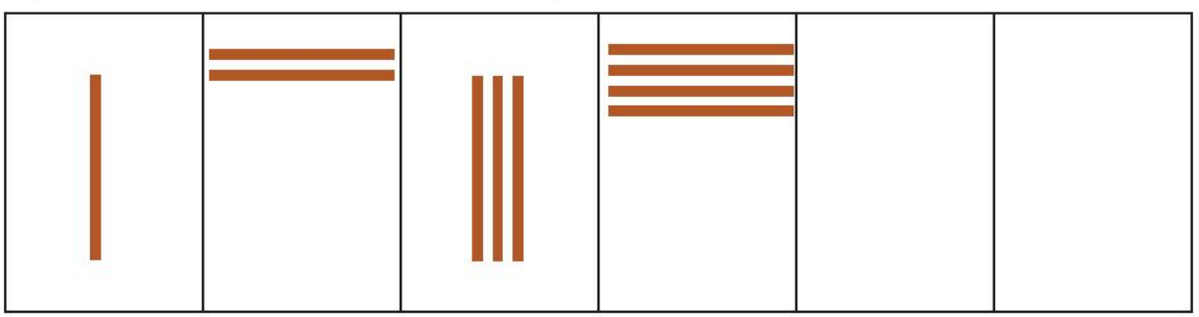
ii) The pattern begins with 39. The next number is 3 less than the previous number.



iii) The middle number in the pattern is 45. The number previous to it is 40.

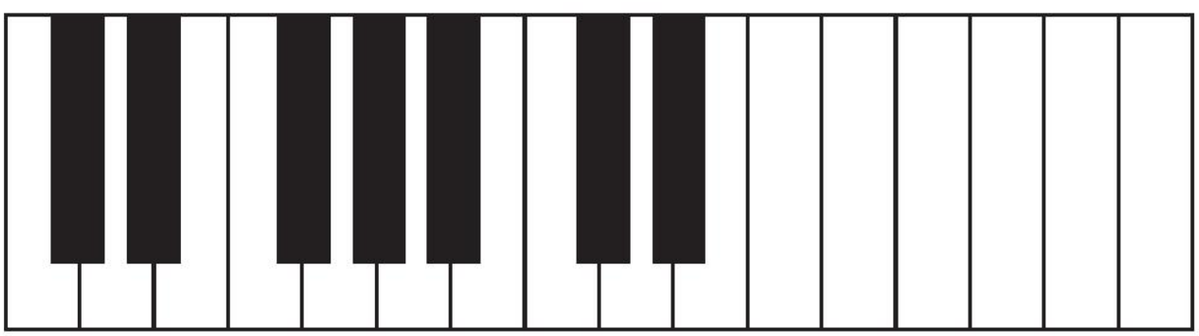


2) Draw sticks to continue the pattern.



Try This

Draw the missing black keys in a pattern.



2nd std Maths III-term Unit_2.indd 23 9/1/2022 5:41:44 PM

2.2 Iterative pattern

Travel Through

Rani's house

Observe the iterative nature of the number of toys with respect to the number of tokens.

1 TOKEN Number of tokens	 Number of toys
1	2
2	4
3	6
4	8

Answer the following questions.

i) What is the pattern found in the numbers of tokens?

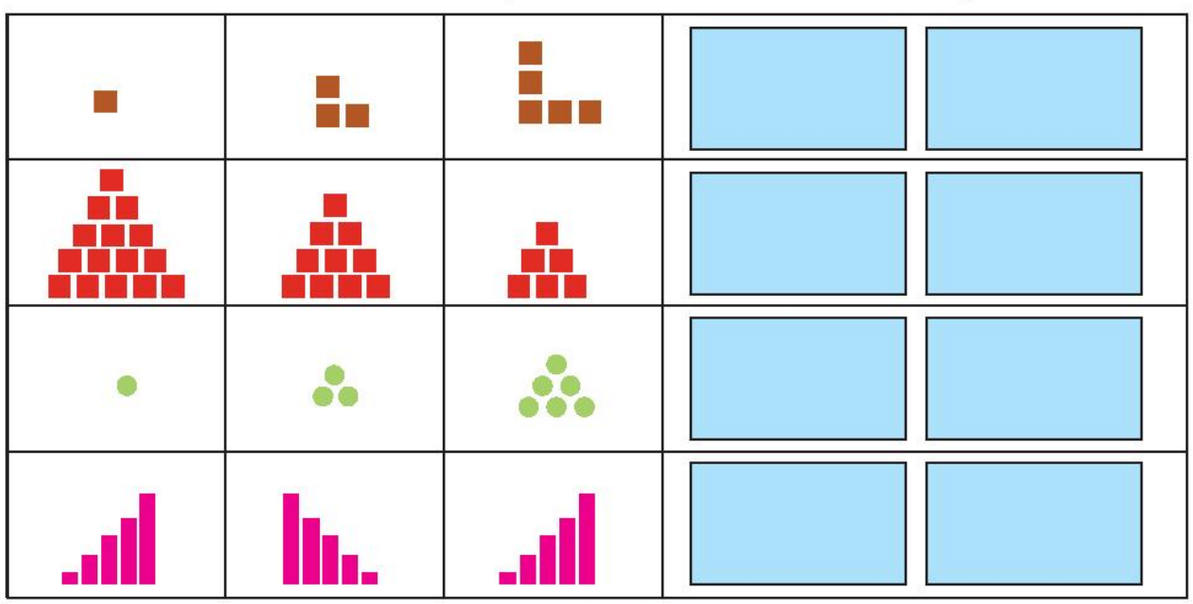
ii) What is the pattern seen in the numbers of toys?

iii) How are the number of tokens related to the number of toys?

iv) Can you guess the number of toys if there are 5 tokens?

Learn

Observe and continue the patterns for two more steps.

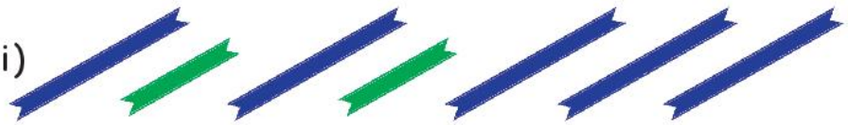


2nd std Maths III-term Unit_2.indd 24 9/1/2022 5:41:45 PM

Try This

Strike the odd one in the given pattern. Draw the correct image to replace it in the given space.

i) 

ii) 

iii) 

iv) 

Pleasure Time

Sugar & Chilli



i) What is the first one?

ii) What is the nature of it?

iii) What is the second one?

iv) What is the nature of it?

v) What is the third one?

vi) What is it's nature?

vii) Can you tell how are the items ordered/arranged ?

viii) Can you tell what could be the next one in the series?

Think Like A Mathematician

How are the tables and chairs arranged in your classrooms? Do you find any pattern in them? Discuss with your friends.

2nd std Maths III-term Unit_2.indd 25 9/1/2022 5:42:00 PM

UNIT 3

Measurement

3.1 Comparison of weight

Keywords

heavy-light

Travel Through

Thenaliraman and two villagers went to a town to visit their king. They want to give some gifts to him.



Teacher's Note:

Discuss the story with children and make them realize the concept of heavy and light.

2nd std Maths III-term Unit_3.indd 26 9/1/2022 5:49:15 PM

Learn

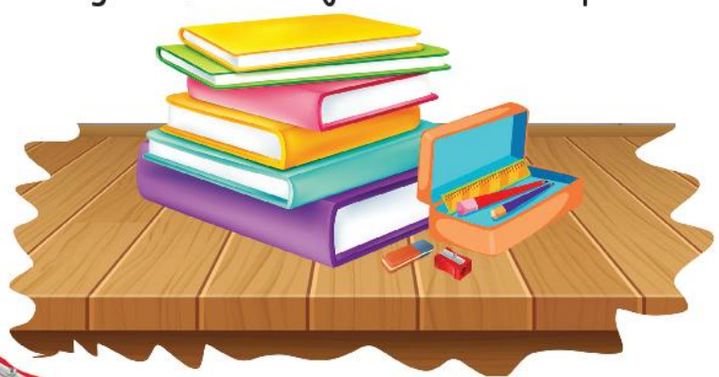
Blow and Observe

Place a feather, a dry leaf, a key and a nail cutter on a table. Blow the things. What did you observe?

The feather and dry leaf moved away from the table but the nail cutter and keys did not, why? Feather and dry leaf are lighter and nail cutter and keys are heavier. So lighter objects fall down when air is blown.



Compare the weight of the objects that are placed on the table.



JTKZ3



Sharpener is lighter than the book .

Pencil box is heavier than the eraser .

Teacher's Note:

Teacher can instruct children to carry two things at a time and say which one is heavier or lighter.

Practice

From your school bag, lift the objects given below and answer the following questions.

i) Tick the heavier object.





ii) Tick the lighter object.





2nd std Maths III-term Unit_3.indd 27 9/1/2022 5:49:21 PM

Practice

Compare the weight of objects given below and order them from lightest to heaviest by giving numbers 1, 2, and 3.

i





ii





iii





iv



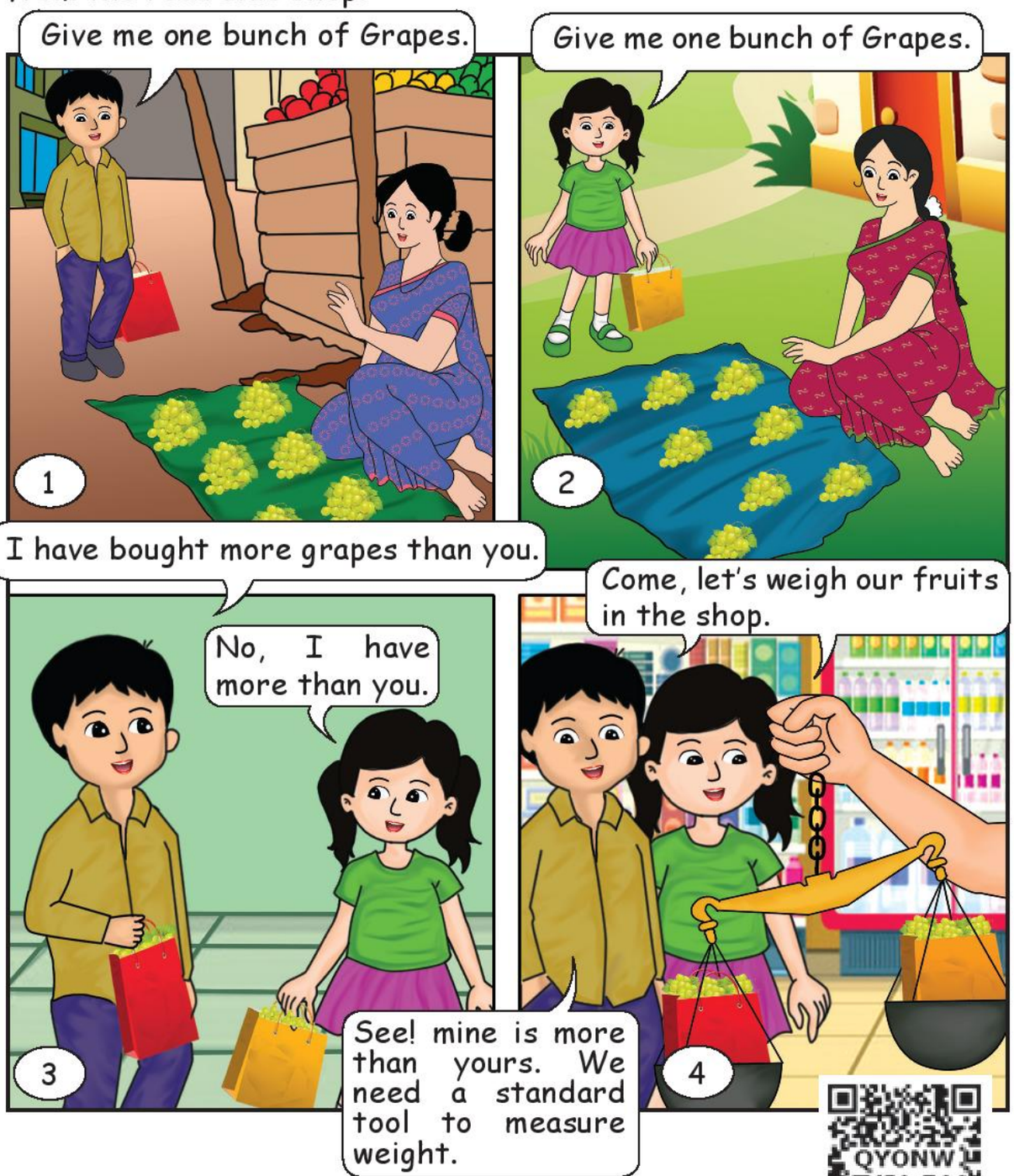


2nd std Maths III-term Unit_3.indd 28 9/1/2022 5:49:43 PM

3.2 Measuring weight using simple balance

Travel Through

Bharath and Kannagi buy grapes from two different fruit sellers from the road side shop.



QYONW

Teacher's Note:

Teacher can make students understand the need of standard measures.

2nd std Maths III-term Unit_3.indd 29 9/1/2022 5:49:43 PM

Learn

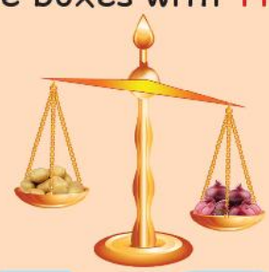
Small things can be weighed using simple balance. Big things can be weighed using weighing machine.

A simple balance has two pans.

		
HEAVY LIGHT	LIGHT HEAVY	SAME WEIGHT
The pan with heavier object comes down.	The pan with lighter object goes up.	If both the objects are equal in weight, the pans will be in the same level.

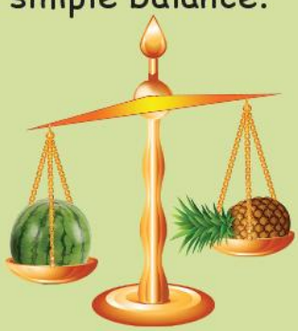
Practice

A. Fill the boxes with 'H' for heavy and 'L' for light.





B. Tick (✓) the lighter side and cross (×) the heavier side of the simple balance.





2nd std Maths III-term Unit_3.indd 30 9/1/2022 5:49:44 PM

Pleasure Time

Match the objects with the suitable balance that are used to measure the weight.


Rice bag


Sugar bag

Beads


Goldstuds


Jaggery


Elaichi







Activity



















- Take two coconut shells, thread and a ruler.
- Tie the thread at the centre of the ruler.
- Tie the shells on both sides at equal distance from its centre. Now, the simple balance is ready.
- Take some marbles, pencil, eraser, crayons, chalk piece, paper, pencil box and paper.
- The children can be divided into group of three each.
- One child keeps the objects whose weight is to be measured on the right pan of the balance.
- The other child keeps adding marbles on the left pan of the balance till both the pans are balanced.
- The third child counts the marbles and records the weight of different objects.

2nd std Maths III-term Unit_3.indd 31 9/1/2022 5:49:57 PM

3.3 Measuring capacity

Keywords
Capacity

Recall

Comparison of capacity

Tick (✓)the container that contains more water.

i)



ii)



Travel Through

Water! Water!



Kamali and kannan fetch 2 pots of drinking water from a tap. Observe the picture and say who will fetch more water?

2nd std Maths III-term Unit_3 Vol.indd 32 9/1/2022 5:44:31 PM

Learn

Capacity is the quantity that a vessel can hold within it.

Here tumbler, jug, vessel and pot are some of the containers used to hold water. The capacity of each is different from the other due to the differences in their size.

To measure the capacity, a common measuring container is necessary. Here let us take the common measuring container as the tumbler.

 	 	 	 
The tumbler can hold 2 tumblers of water.	The jug can hold 5 tumblers of water.	The vessel can hold 10 tumblers of water.	The pot can hold 20 tumblers of water.

Activity

Ordering by capacity

Collect the information about measuring containers from your elders and complete the table.

Measuring container used by	To measure milk	To measure rice
My mother		
My grandmother		
My friend's mother		
My friend's grandmother		

3VS0U

Teacher's Note:

Let children discuss on how measuring tools vary across generations (vertically) and vary between family to family (horizontally).

2nd std Maths III-term Unit_3 Vol.indd 33 9/1/2022 5:44:38 PM

Practice

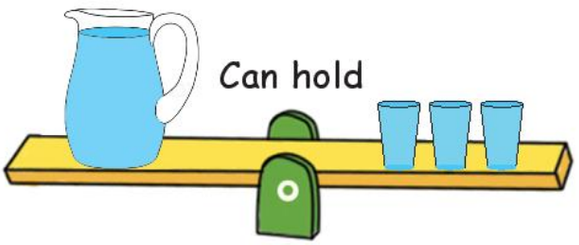
Guess the capacity of the given container in terms of measuring vessel. Verify your guess by actually measuring it.

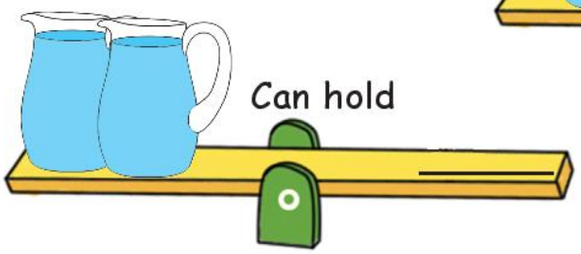
Given Vessel	Measuring vessel	Guessed Capacity	Measured Capacity
			
			
			
			
			

2nd std Maths III-term Unit_3 Vol.indd 34 9/1/2022 5:44:41 PM

Try This

Find the capacity given that 1 jug can hold 3 tumblers of water.





tumblers of water.

S9LO2



Can fill _____ jugs of water.

Pleasure Time

We use different shaped containers in daily life for various purposes. Have you ever thought the reason for it? Think! Complete the following table by putting a tick (✓) mark below the container that is appropriate for the given activities.

Activity	Jug	Bucket
Bathing		
Washing hands		
Washing face		
Washing your lunch box		
Brushing your teeth		

2nd std Maths III-term Unit_3 Vol.indd 35 9/1/2022 5:44:42 PM

UNIT 4 Money

Recall

Keywords
Notes
Coins
Currencies

i) Shown below are the stationery items and the currency notes paid to the shop keeper. Write the price of each of the items.

Stationery items	Amount paid	Price
	 	20+5=25 Rupees
	 	
	 	

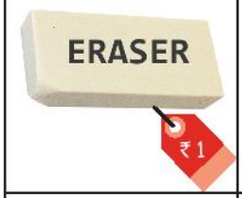
ii) Muthamizh wants to buy a doll and a pencil box. Guessing the price, she takes two sets of different denominations to purchase them. In the shop she notices the price tags on the things. Circle the coins that she has to pay to the shop keeper.

2nd std Maths III-term Unit_4.indd 36 11/10/2022 15:38:19

Practice

Observe the price tags. Put a tick (✓) mark for the amount to be paid.

	 ☐	 ☐	 ☐	 ☐
	 ☐	 ☐	 ☐	 ☐
	 ☐	 ☐	 ☐	 ☐
	 ☐	 ☐	 ☐	 ☐
	 ☐	 ☐	 ☐	 ☐
	 ☐	 ☐	 ☐	 ☐

2nd std Maths III-term Unit_4.indd 37 11/10/2022 15:38:27

4.1 Notes and coins

Travel Through

In the bazaar



Kuzhalini and her mother went to the market. In all the shops she saw tags with different amount written on it. She asked her mother about it. Help them purchase things within the amount they have.

Teacher's Note:

Teacher can motivate children to prepare a list of things that can be purchased for the given amount.

Learn

Introduction of ₹ 50 currency notes.

50 rupees is equal to five 10 rupees.



2nd std Maths III-term Unit_4.indd 38 11/10/2022 15:38:28

Practice

Complete the table for the given amount.

Amount paid	Number of Ten rupees	Number of One rupee
35	3	5
78		
89		

Calculate the amount paid.

Number of Ten rupees	Number of One rupee	Amount paid
4	8	48
5	6	
6	0	

Pleasure Time

Write the total amount of given currency notes and coins.

S.No	Currency notes and coins	Total
1	  	T O
2	   	T O

2nd std Maths III-term Unit_4.indd 39 11/10/2022 15:38:28

Learn

Comparison of price



Pari bought a doll for ₹ 50 for his sister.
Arivu bought a doll for ₹ 70 for his brother.



Arivu bought the doll with more money than Pari.
So, we can express this as Arivu's doll is costlier than Pari's.



Kural bought a water bottle for ₹ 80.
Madhi bought a water bottle for ₹ 95.



Kural bought the water bottle with less money than Madhi.
So, Kural's water bottle is cheaper than Madhi's.

Practice

Tick (✓) the object which is costlier between the given two.



Tick (✓) the object which is cheaper between the given two.



2nd std Maths III-term Unit_4.indd 40 11/10/2022 15:38:34

Learn

In a festival day.



Iraivi, Kathir, Vaanchi, Mukil visited a trade fair along with the family. Some of the rides which children love to take are shown below.



Merry-go-round
₹ 20



Giant wheel
₹ 30



Ship ride
₹ 25



Dashing car
₹ 15

Practice

Answer the following questions:

1. If Kathir wants to go in all the 4 rides one time. How much should he pay?

2. Mukil played giant wheel two times and gave  + . How much balance will she get?

3. Kathir, Vaanchi and Mukil played merry-go-round once. How much they have to pay totally?

Teacher's Note:

Teacher encourages children to add the amount to spent on 3 rides in all possible ways and to choose the one accordingly for the given amount.

2nd std Maths III-term Unit_4.indd 41 11/10/2022 15:38:35

Practice

Observe the price of the articles purchased. Count the money you have. Calculate the amount spent and balance left.

Purchased articles	Money you have	Money you spent		Money which is left with you	
		T	O	T	O
 ₹ 15  ₹ 20					
 ₹ 20  ₹ 5					
 ₹ 10  ₹ 20					
 ₹ 5  ₹ 6					
 ₹ 20  ₹ 10					

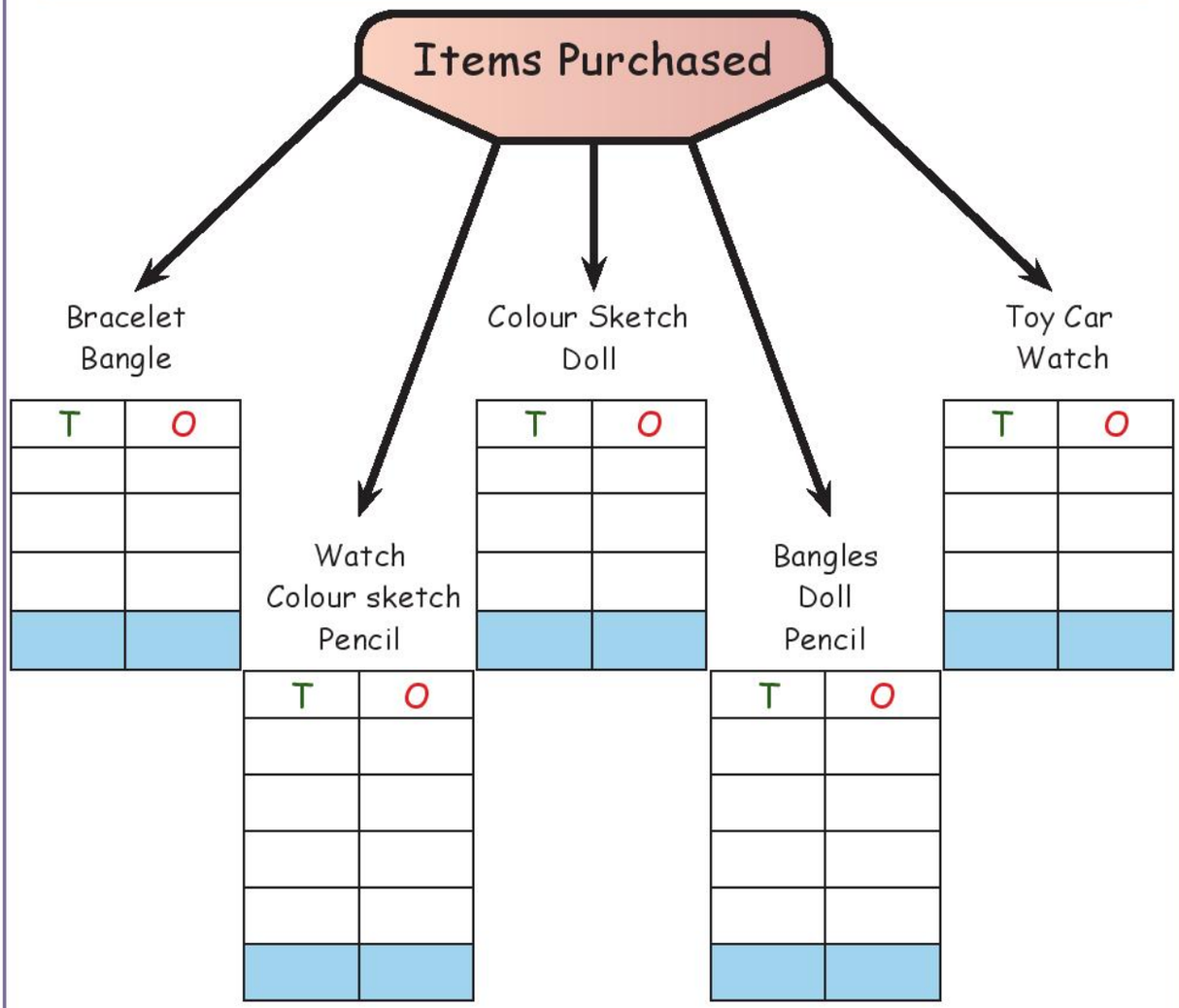
2nd std Maths III-term Unit_4.indd 42 11/10/2022 15:38:38

Try This

Observe the price of different articles given below and complete the table.

Watch  -₹ 60, bracelet  -₹ 20, doll  -₹ 40, bangles  -₹ 45,

toy car  -₹ 25, colour sketch  -₹ 30, pencil  -₹ 5



If you have ₹ 20, then what do you wish to buy?

2nd std Maths III-term Unit_4.indd 43 11/10/2022 15:38:42

UNIT 5 Time

Recall

1. Fill in the blanks.



i. There are _____ months in a year.

ii. March is the _____ month of the year.

iii. June comes before _____.

iv. _____ comes between April and June.

2. Write the day that comes between the given days.



i. Thursday, _____,Saturday.

ii. Saturday, _____,Monday.

iii. Friday, _____,Sunday.

iv. Wednesday, _____,Friday.

3. Fill in the birthday chart and arrange the birthdays in order of celebration this year. (write only the date and month for example, 2nd October)

	My family	My friend's family	Birthday celebrated first	Birthday celebrated Next
Self				
Father				
Mother				

Six birthdays in order

1._____ 2._____ 3._____ 4._____ 5._____ 6._____

2nd std Maths III-term Unit_5.indd 44 9/1/2022 5:55:05 PM

4. Answer the following questions.

i. Write the names of all the months having 30 days?

ii. Write the names of all the months having 31 days?

iii. The month which comes after April is_____.

iv. The last month of a year is_____.

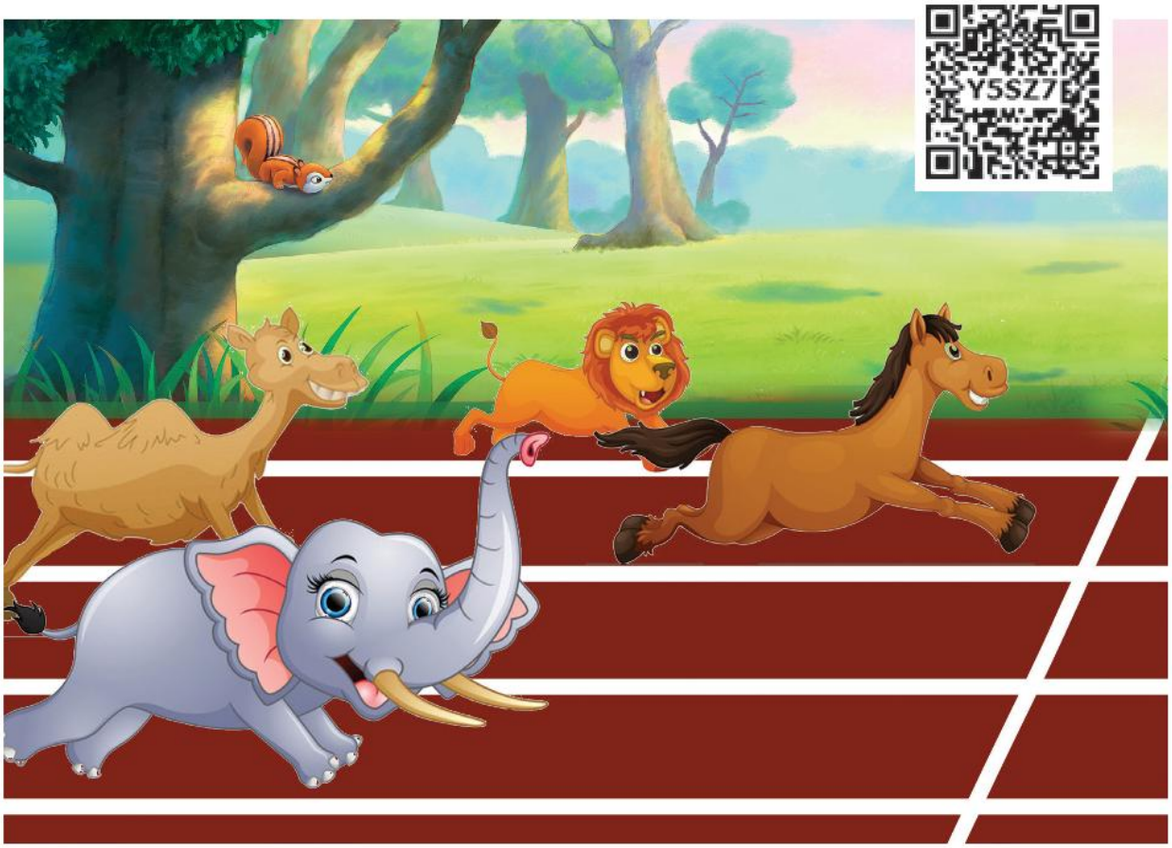
5.1 Calculating time

Keywords
Fast
Slow
Less time
More time

Travel Through

Who will win?

Animals in the zoo wants to know who runs faster. They run a race. Guess the winner.



Teacher's Note:

Teacher can facilitate the key words fast, slow, less time, more time by narrating the above scenery.

2nd std Maths III-term Unit_5.indd 45 9/1/2022 5:55:07 PM

Learn

Fast - Slow



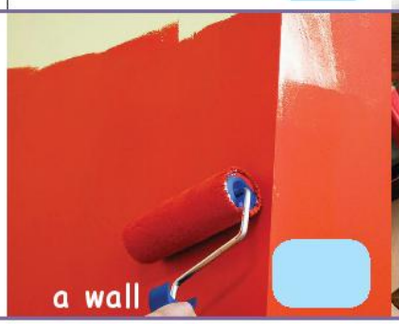
Boiling of milk takes less time.



Conversion of milk to curd takes more time.

Practice

Tick (✓) the actions which takes less time.

Travelling from Chennai to Delhi.	 by flight ☐	 by train ☐
Reaching the school from your house.	 by bicycle ☐	 by school bus ☐
Painting or colouring	 a wall ☐	 a picture ☐

2nd std Maths III-term Unit_5.indd 46 9/1/2022 5:55:19 PM

Learn

Making of a tent takes less time than constructing a house.







Here, the time taken for making a tent can be expressed in hours. We use a clock to measure time in hours, minutes and seconds.

The duration of time taken to complete the construction of a house is expressed in months. We use calendar to express duration in months, weeks and days.



Practice

Tick (✓) the appropriate time measuring device.

Events			
Summer vacation			
Library time			
Pongal celebration			
Morning breakfast			

2nd std Maths III-term Unit_5.indd 47 9/1/2022 5:55:24 PM

Learn



Small containers can be filled faster than big containers.

Practice

EFH9J

Tick (✓) the container which takes less time to fill.

 Tank ☐	 Tub ☐
 Jug ☐	 Can ☐
 Rice sack ☐	 *Padi* ☐

2nd std Maths III-term Unit_5.indd 48 9/1/2022 5:55:25 PM

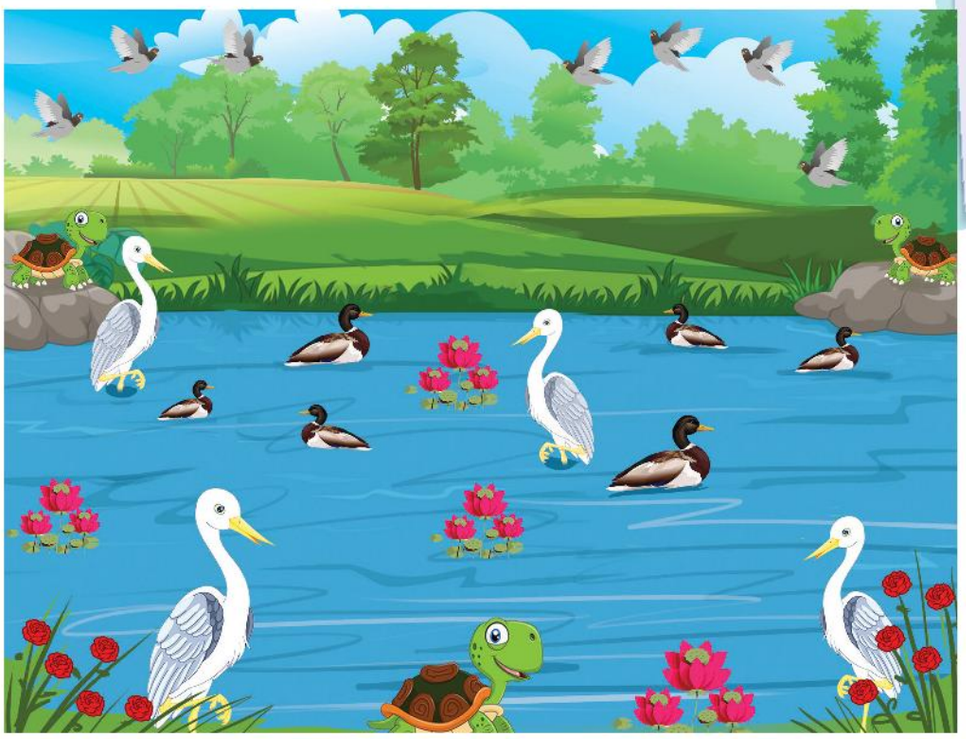
UNIT 6

Information Processing

6.1 Representation of data and drawing inferences

Travel Through

Keywords
Categorise
Information
Data
Record



Observe the living creatures seen in the pond. categorise and record them.

Creature	Number of creatures
	
	
	
	

1. Tick the bird found in more number. - crane / duck
2. Tick the creature found in less number. - turtle / dove
3. Tick the bird found in less number. - dove / duck
4. _____ is seen in large number in the pond.
5. Among all the living creatures, the least found in the pond is _____.

2nd std Maths III-term Unit_6_IP.indd 49 11/10/2022 15:50:25

Learn

Tally marks

Tally marks are lines which represent the number as follows

1	2	3	4	5	6	7	8	9	10
I	II	III	IIII	𝍸	𝍸 I	𝍸 II	𝍸 III	𝍸 IIII	𝍸 𝍸

Arivu,the farmer records the number of animals that are seen inside the fence using tally marks.



Animals	Tally Marks	Number of animals
	IIII	4
	𝍸	5
	𝍸 II	7
	III	3
Total		19

Teacher's Note:

Teacher can encourage the students to first draw the tally marks and then count the number of tally marks drawn.

2nd std Maths III-term Unit_6_IP.indd 50 11/10/2022 15:50:26

Practice

What is my height?

Form groups as per the strength of the class. Collect the information from your friends and complete the table.

Name of your group member	Height (in cm)



From the above table, fill in the data using tally marks.

Height	Tally marks	Number of students
Less than 80cm		
Between 81cm and 90cm		
91cm and more		

Try This

Divide the class into groups as per the strength of the class. Record their blood group in the table given below using tally marks.

Blood Group	Tally marks	No.of Friends	Blood Group	Tally marks	No.of Friends
A+			AB+		
A-			AB-		
B+			O+		
B-			O-		

From the table, answer the following questions.

1. Which blood group is the most common among the groups?
2. Which is the least found blood group among the groups?
3. O- is the universal donor. The maximum number of chance that the O- can donate to is _____

Teacher's Note:

Teacher can tell children that any blood cannot be used by other. Also tell them that +ve is different from -ve. To donate the blood, same group of blood should be used. O- can be donated to any other group. AB+ can accept any other blood group.

2nd std Maths III-term Unit_6_IP.indd 51 11/10/2022 15:50:26

6.2 Relationship

Keywords
Relation
Elder
Younger
Sibling

Travel Through Family time



Malar : Grandpa, see there. My friend is coming.

Punniyakoti : What is his name? I have never seen him before.

Malar : Grandpa, his name is Chezhiyan.

Chezhiyan : Good morning, grandpa.

Punniyakoti : Good morning dear Chezhiyan, who is your father? what is he?

Chezhiyan : Anbarasan is my father. He is a teacher.

Punniyakoti : Oh! Are you the grandson of Poovarasan?

Chezhiyan : Yes, grandpa.

The conversation continues...

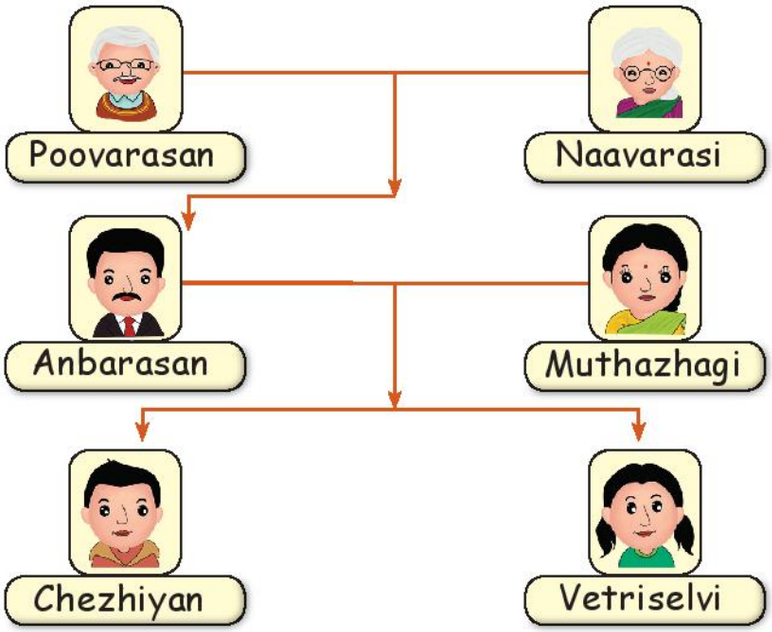
Teacher's Note:

Teacher shall prompt the children to continue the conversation. So children are made familiar to relate themselves with the relatives of their mother and father.

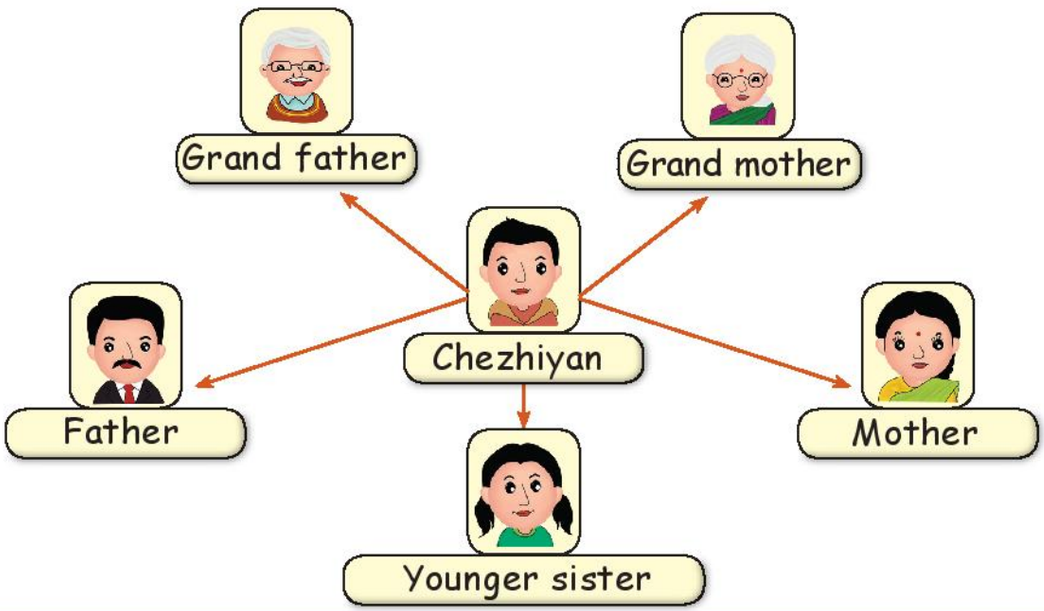
2nd std Maths III-term Unit_6.indd 52 11/10/2022 15:51:17

Learn

Chezhiyan's Family.



From the above family tree, let us learn Chezhiyan's relationship with other members.



Know more

Who is the youngest in chezhiyan's family? _____

Who are all elder to chezhiyan? _____

2nd std Maths III-term Unit_6.indd 53 11/10/2022 15:51:18

Practice

Write the suitable relation for the given box.


Son
Father



Grand Daughter



Daughter-in-law


There are two children in Chezhiyan's family. Who is the sibling of Chezhiyan? Grand father / father / sister

Pleasure Time

Make your family tree and mention the name and age of your family members in the tree. and answer the following questions.

i) Who are the family members elder than you?

ii) Who are the family members younger than your grandparents?

iii) How many of your family members are elder than your father?

iv) Who are the family members younger than you?

v) How is your father's father related to you?

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6.3 Shapes and nature of objects

Keywords
Shapes
Container
Nature
Items

Travel Through

Ravi and Vani went to the milk shop and then to a book shop. Observe the objects they have in their hands to collect the items.



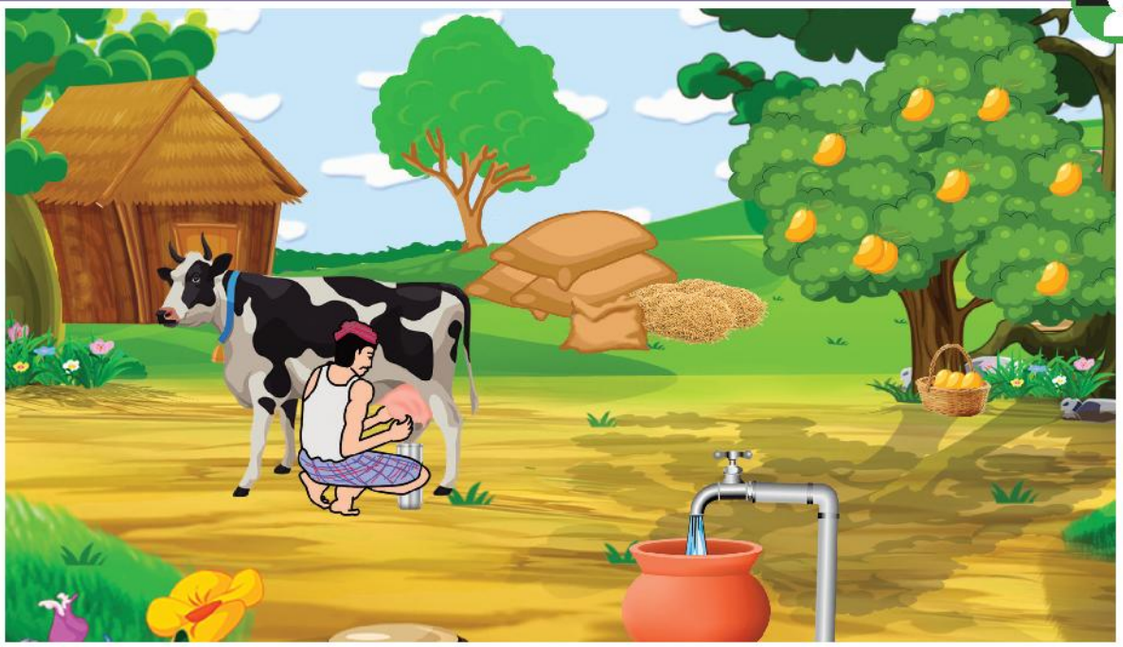
Who has the most suitable container to buy milk? Why do you say so?



Which bag can be used to carry books? Why do you say so?

2nd std Maths III-term Unit_6.indd 55 11/10/2022 15:51:18

Learn



Materials are stored in different containers based on their properties. Solid materials like rice can be stored in sacks, liquid materials can only be kept in containers and gases are stored in closed containers.

Observe the above picture and match the following.

Milk

Rice

Water

Fruit









RI71E

Think Like A Mathematician

Gases are stored in closed containers. Why?





2nd std Maths III-term Unit_6.indd 56 11/10/2022 15:51:20

6.4 Algorithms and Instructions

Keywords
Instructions
Steps

Learn

Play time



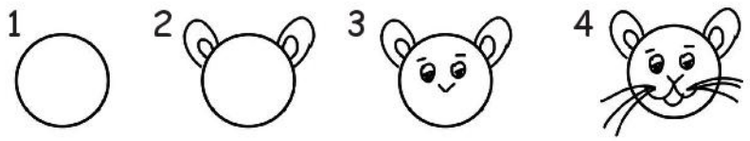
Kuzhali explained the steps to play the board game ludo.

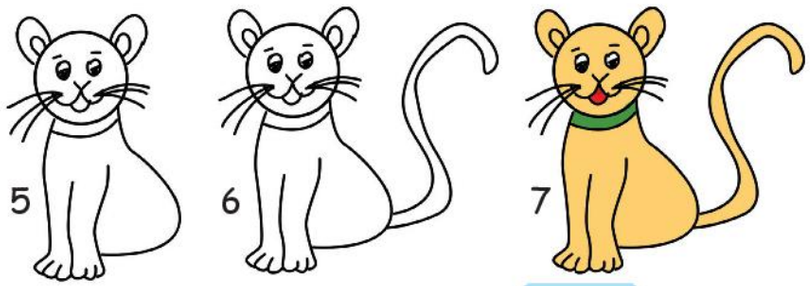
- Two to four players can play this board game by rolling a dice.
- Each player will have four coins at the bay. The aim of the game is to take all four coins to the end point. Player who does this first will be the winner.
- The player can take each of his coin from the bay to the starting point only when he gets one on the dice and moves from there as per the number on the dice.
- A player can put his opponent's coin back to the bay when his coin gets to occupy the same position as that of the opponent's coin.
- Then the opponent should move the coin once again from the starting point only when he gets one on the dice.

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Practice

Arrange the instructions in order by writing the numbers 1 to 7 that help us to draw the picture of a cat.





Draw eyes and nose.

Draw a circle.

Colour the cat.

Draw the neck, body and two legs.

Draw mouth and mustache.

Draw two ears.

Draw a tail.

R97HL

Pleasure Time

Follow the instructions to make a paper boat.

- Take a square shaped paper.
- Fold it along the centre to make it half.
- Make the second fold to make it a quarter.
- Fold one of the four flaps diagonally.
- Fold the remaining three flaps together in the opposite direction.
- Open up the folds. The paper boat is ready now.

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Primary Mathematics – Class II (Term 3)

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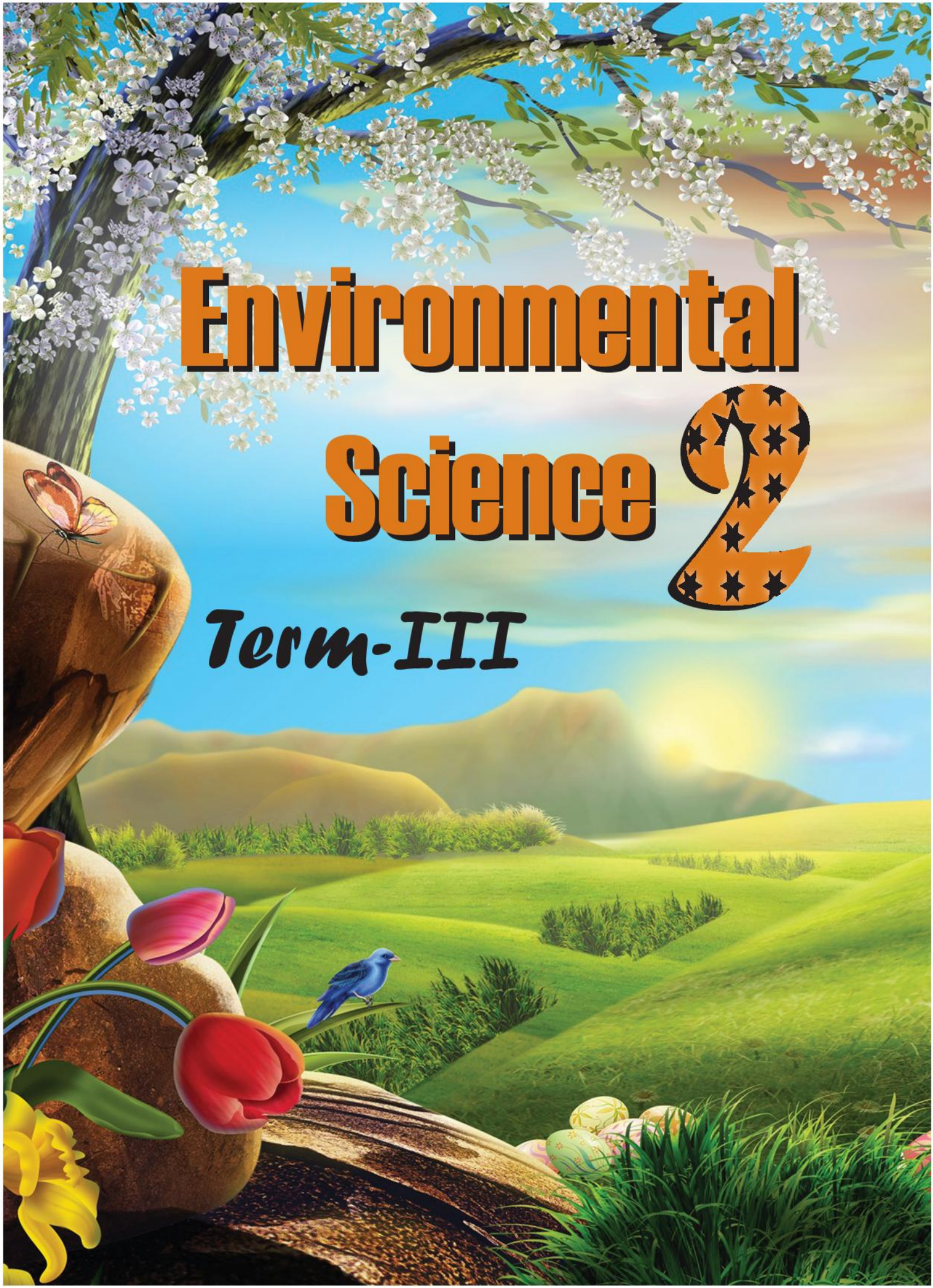
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Textbook

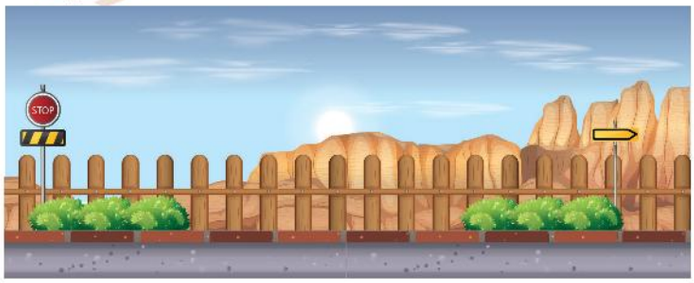
Q29RO

Evaluation

C4PIT

Unit 1

Materials Around Us



You will learn about

- Natural sources, man-made materials and things
- Matter - definition and properties



CW91O

We use many kinds of materials in our life. Nature is the source of all of them (e.g., tree). From these **natural sources** man makes many **materials** (e.g., wooden planks) which are used to make many other things (e.g., wooden basket).

Sources of Natural Materials

The sources of natural materials are plants, animals, rocks and soil.



Plants



Animals



Rocks and Soil

2nd EVS_Materials Around Us_Term 3_Unit 1_EM.indd 62 12/10/2022 16:07:19

From Plants...



Logs



Cotton



Coconut Frond

From Animals...





Leather





Wool

From Rocks and Soil...







We get metal ores from rocks and soil



Think....

For today's need you are cutting me but for tomorrow's need plant more trees like me...



2nd EVS_Materials Around Us_Term 3_Unit 1_EM.indd 63 12/10/2022 16:07:23

Write 'A' for the animal, 'P' for the plant and 'M' for the metal sources of the given materials.








Wood

Let Us Discuss

Why do we make windows and cupboards from wood?

- Wood is a **strong material**. So furniture can be made from it.
- It is long lasting.
- It can be cut into pieces and can be given different shapes.
- Wooden pieces can be joined together to make many useful things.

Natural source → **Man-made materials** → **Man-made things**

Natural source



2nd EVS_Materials Around Us_Term 3_Unit 1_EM.indd 64 12/10/2022 16:07:26

Man-made materials







Using some tools, tree trunks are cut into **wooden logs** and **planks**.

Man-made things



Toys



Shelf



Door



Cart



Chair



Swing

DO YOU KNOW?

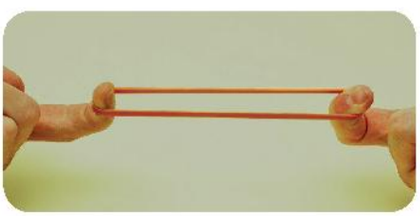
Paper is made from wood pulp.

Rubber

Do you know from what material your eraser is made?



Rubber is made from the **sap** (a milky substance) of the rubber tree.



- Rubber is **elastic**; so **rubber bands** are made from it.
- It is also **waterproof**; so **hand gloves** are made from it.



- **Elastic** – Comes back to its original shape after being stretched
- **Waterproof** – Does not allow water to enter inside

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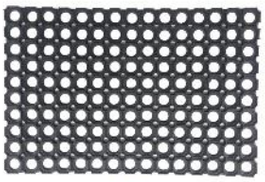
The following things are also made of rubber.



Slipper



Eraser



Mat



Tyre



Ball

Observe the pictures and fill in the blanks.



Shelf



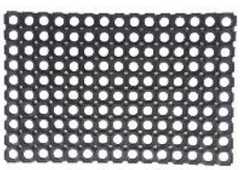
Rubber Bands



Spoon



Cycle Tube



Mat



Chair

Write the names of the man-made things from wood.

1._____ 2._____ 3._____

Write the names of the man-made things from rubber.

1._____ 2._____ 3._____

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Fibre

Do you know how clothes and ropes are made?

Fibre is a material obtained from **both plants** and **animals**. Cotton and jute are the **fibres** got from **plants**. Wool and **silk** are **fibres** obtained from **animals**.

Plant Fibres



Cotton



Jute

Animal Fibres



Silk



Wool

Fibre from the coconut tree is called coir. Many things are made from it.













DO YOU KNOW?

Silk thread is a strong material and is used in making parachutes.



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The jute fibre is **long**, **shiny** and **strong**. Silk is the strongest natural fibre. We make many things like bags, mats and sarees from these fibres.

Wool keeps us warm; so sweaters, caps and socks are knitted using it.

Leather is **flexible**; so belts, watch straps and bags are made from it.

From Jute




From Wool




From Silk




From Leather




Put a tick (✓) for the correct pair and a cross (x) for the wrong one.



















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Clay

Do you like playing with clay?



- **Clay** is a **natural material**. It is a type of soil. When it is mixed with water, it becomes soft.
- It hardens as it dries; so, pots and other things can be made from it.
- A potter uses his tool, the **potter's wheel**, to make clay pots and other things.

I give you cool water without using electricity.





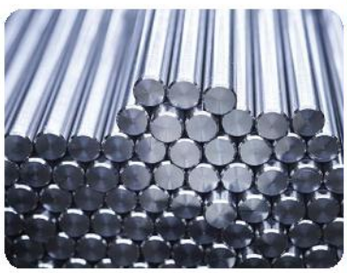




Metals

Have you seen the different vessels in your kitchen?

Metals are materials got from **metal ores** - e.g., Gold, Silver, Iron and Copper.



- Since metals are **strong** and **hard**, vehicles, gates and cooking vessels can be made from it.
- Metals are **shiny**.
- When heated, metals **can be shaped** into any form - small paper clips or a huge aeroplane.



Aeroplane



Paper clips



Gold bangles



Steel vessels



Aluminium vessels



Copper vessels

2nd EVS_Materials Around Us_Term 3_Unit 1_EM.indd 69 12/10/2022 16:07:38

Matter

Anything natural or man-made that **occupies space** is called matter.

Matter has properties like **taste**, **smell**, **size** and **shape**.



Orange is a natural thing. It occupies space.



A wooden basket is a man-made thing. It occupies space too.



These yellow laddus occupy the space in the bowl.
They are small, round in shape and are sweet to taste.



Many materials are used in making an object. Choose and write the correct pair of materials found in the given objects.

1. Materials found in motor bikes are_____.

a. metals and clay
b. rubber and clay
c. metals and rubber



2._____are found in these pots.

a. Clay and rubber
b. Metals and clay
c. Metals and rubber



3. This belt is made of_____.

a. fibre and rubber
b. metals and clay
c. metals and leather



4. This chair is made of_____.

a. metals and wood
b. fibre and rubber
c. metals and clay

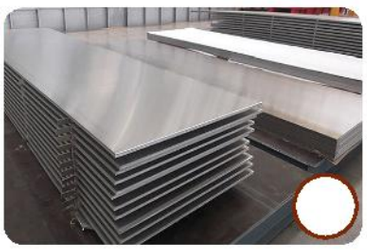


2nd EVS_Materials Around Us_Term 3_Unit 1_EM.indd 70 12/10/2022 16:07:38

Evaluation

1. Number the natural sources as '1' and the man-made materials as '2'.








2. Write 'T' if True and 'F' if False.

a. Most metals are strong. ☐

b. Wood cannot be cut. ☐

c. Rubber is not elastic. ☐

d. Wool keeps us warm. ☐

3. Write the names of the materials that the given objects are made of. (Leather, Rubber, Metal, Clay)






_____objects _____tube _____shoe _____chain

2nd EVS_Materials Around Us_Term 3_Unit 1_EM.indd 71 12/10/2022 16:07:39

4. Complete the tabulation by using the given pictures and by adding one more object on your own.



Purse



Gloves

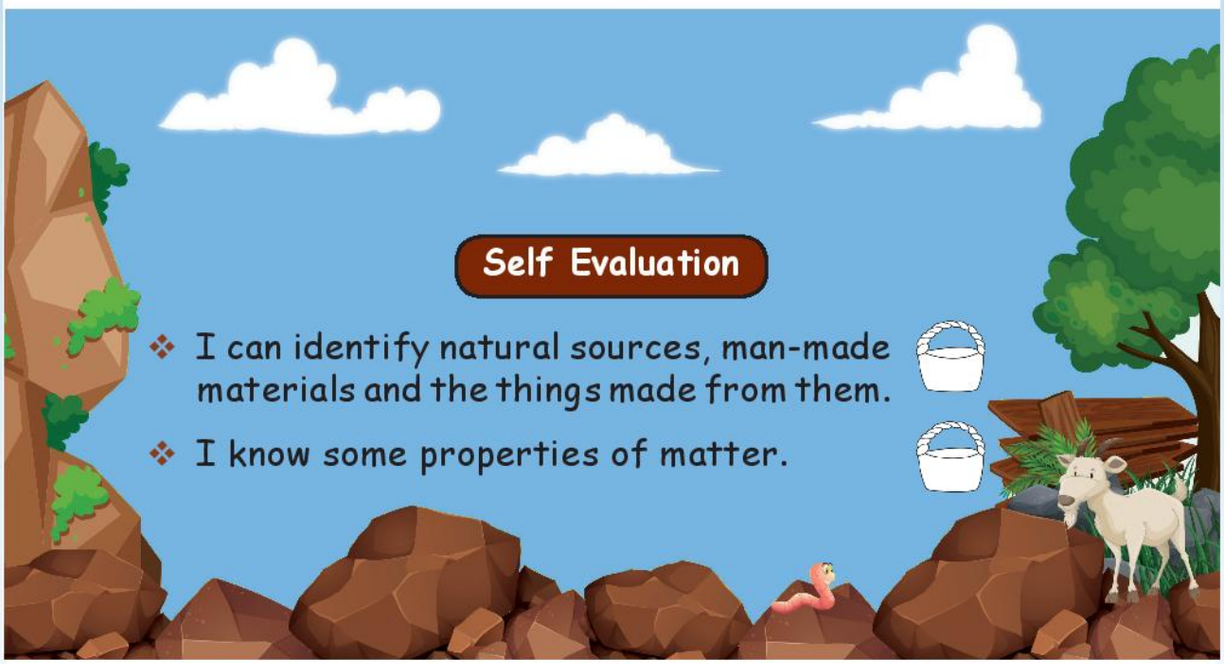


Key



Wooden box

S.No	Sources	Man-made things
a.	Wood	1. 2.
b.	Rubber	1. 2.
c.	Leather	1. 2.
d.	Metal	1. 2.



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Unit 2

My Beloved Motherland



You will learn about

- National days
- National leaders
- National and State symbols
- Caring for public property

National Days and National Leaders

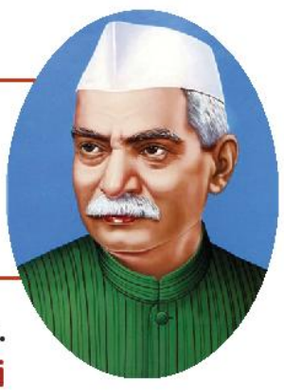


August 15

For many years our country - India, was ruled by another country called Britain. We became free from their rule on August 15th, 1947. India celebrates this day as '**Independence Day**' every year.

January 26

Our own laws (Constitution of India) came into force on 26th January 1950. It is celebrated as '**Republic Day**'. **Dr.Rajendra Prasad** was the first President of free India.



Many leaders worked hard to make India independent. Two important leaders among them were **Mahatma Gandhi** and **Jawaharlal Nehru**.

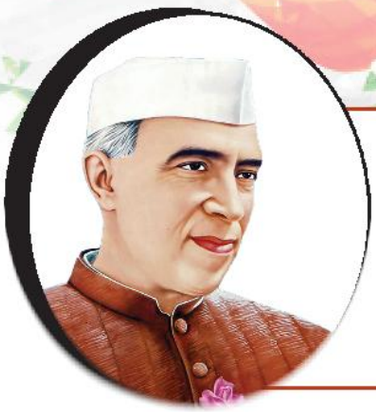


October 2

Mahatma Gandhi is affectionately remembered by all of us as '**Bapu**' or the '**Father of our Nation**'. He followed the path of non-violence. He led a simple life and always spoke the truth. His birth day, 2nd October, is celebrated as '**Gandhi Jayanthi**'.



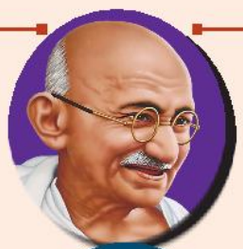
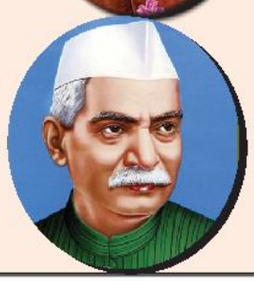
2nd EVS_My beloved motherland_Term 3_Unit 2_EM.indd 73 9/1/2022 4:58:17 PM



November
14

Pandit Jawaharlal Nehru was the first Prime Minister of India. He was very fond of children. He was lovingly known as '**Chacha Nehru**'. His birth day, 14th November, is celebrated as '**Children's Day**'.

Connect the pictures of the leaders to columns A and B.

A		B
First President of India		Dr.Rajendra Prasad
Father of our Nation		Mahatma Gandhi
First Prime Minister of India		Pandit Jawaharlal Nehru

National Flag - The Tricolour

Our National Flag called the Tricolour is rectangular in shape. It has three equal bands of different colours.



Saffron	Sacrifice
White	Truth and Peace
Green	Prosperity



2nd EVS_My beloved motherland_Term 3_Unit 2_EM.indd 74 9/1/2022 4:58:20 PM

The navy blue wheel in the centre of the white band is called the Ashoka Chakra. It has 24 spokes which stand for progress and values.



We respect our National Flag

National and State Emblems

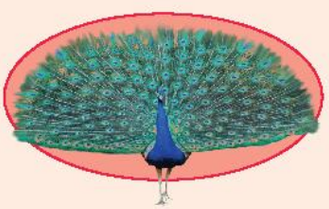


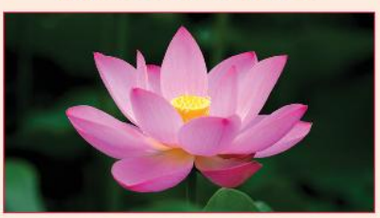
National Emblem



Tamil Nadu State Emblem
(Srivilliputhur Temple)

National Symbols of India

National Animal	National River	National Bird
		
Bengal Tiger	Ganges	Peacock

National Tree	National Flower	National Fruit
		
Banyan Tree	Lotus	Mango

DO YOU KNOW?

The Dolphin of the Ganges river is the National Aquatic Animal of India.





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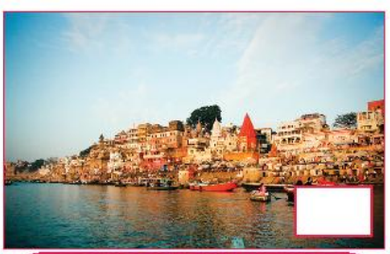
State Symbols of Tamil Nadu

State Animal	State Flower	State Bird
		
Nilgiri Tahr	Gloriosa Lily	Emerald Dove

State Tree	State Game	State Fruit
		
Palm Tree	Kabaddi	Jackfruit

Write 'N' for the National symbols and 'S' for the State symbols in the box given. Name the pictures.

(Nilgiri Tahr, Lotus, Banyan Tree, Mango, Ganges, Emerald Dove)

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Our Responsibility

Some places and things like public toilets, roads, street taps, parks, hospitals, schools and classrooms are used by all of us. It is our responsibility to keep them neat and clean.



Do not spit in public places.



Do not scribble on walls.



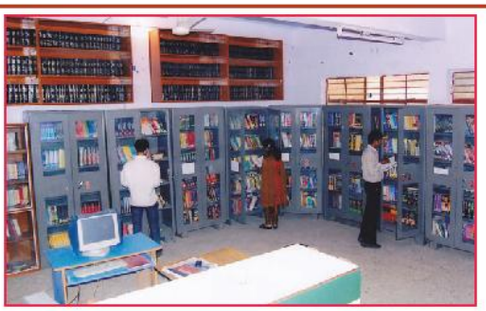
Do not throw waste in public places.



Form a queue.



Use the public toilet. Do not use the road/open spaces.



Maintain silence in the public library. Do not tear or scribble in the books.

Think and Discuss

Why do we need to use a toilet?







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Colour the circle red for the Don'ts and green for the Do's.








Evaluation

1. Write the names of the National Days for the given dates.

(Independence Day, Gandhi Jayanthi, Children's Day, Republic Day)

August 15 _____

November 14 _____

January 26 _____

october 2 _____

2. Circle the odd one.

a. Mango	Bengal Tiger	Banyan tree	Jackfruit
b. Palm tree	Nilgiri Tahr	Lotus	Emerald Dove
c. Saffron	Green	Red	White
d January 26	August 15	October 2	November 12



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3. Select and circle the name for the given picture.

a.		Bengal Tiger	Lion	Elephant
b.		Duck	Peacock	Dove
c.		Ganges	Cauvery	Vaigai
d.		Mango Tree	Banyan Tree	Neem Tree
e.		Jackfruit	Banana	Apple

4. Draw a line connecting the symbol with its name.

Emerald Dove





Lotus

Gloriosa Lily





Mango

Palm Tree





Kabaddi



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5. Fill in the blanks.

(Dr.Rajendra Prasad, Pandit Jawaharlal Nehru, State fruit, Mahatma Gandhi, Nilgiri Tahr)

a. _____ was the first Prime Minister of India.

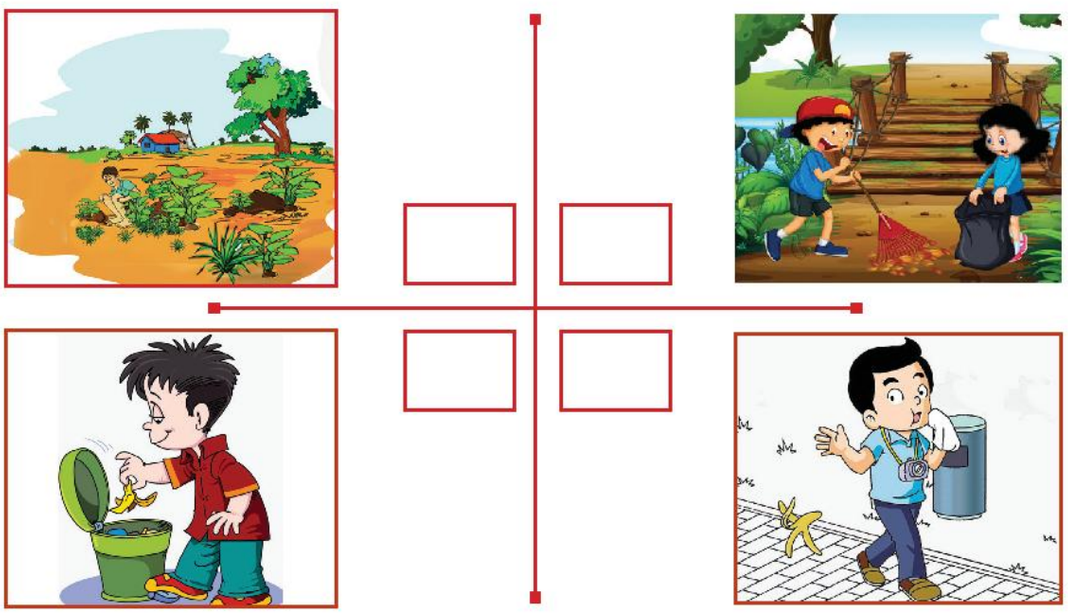
b. The First President of India was _____.

c. _____ is the Father of our Nation.

d. The State animal of Tamil Nadu is the _____.

e. Jackfruit is our _____.

6. Tick (✓) the correct behaviour and cross (x) the wrong one.



Self Evaluation

★ I can name some National days and National leaders.

★ I can identify National and State symbols.

★ I care for public property.

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Unit 3

Shakthi's Journey



You will learn about

- Different modes of transport
- Road safety

Roadways

Shakthi, his father, mother and sisters Kayal and Kavitha lived in Trichy.

They planned to go on a tour of Chennai for their holidays. They had to reach the railway station to board the train.

Shakthi: "How are we going to the station?

Vehicles on the Roadways

Bus



Needs fuel
Carries 50+people

Car



Needs fuel
Five people can travel

Auto rickshaw



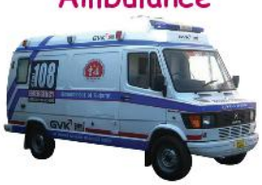
Needs fuel
Two / three people can travel

Lorry



Carries goods

Ambulance



Takes sick people to hospital

Fire and Rescue Vehicle



Puts out fires

Scooter



Two people can ride

Bullock cart



Does not need fuel to move - eco friendly

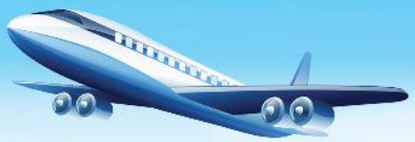
Bicycle



The simplest form of transport
Eco friendly
Cycling keeps us fit

- Which vehicle should Shakthi's family choose to reach the railway station? Discuss the answer and write it here._____

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Think and Discuss

We know that smoke from vehicles makes the air dirty. Can you name some vehicles that do not give out smoke?



Tick (✓) the slowest vehicle. Discuss why it is slow.







Railways

Shakthi and his family reached the railway station. They saw the vendors selling food and magazines, the station master waving a flag, porters loading the parcels and many kinds of trains. Kayal said, "What a busy place the station is!"



Mother replied "Yes, it's because the trains carry many people from place to place in a short time".

Kinds of Trains

Trains that carry people

Passenger train
Stops at all stations
Used within and between cities





Metro rail
Used within cities



Superfast express
Stops at specified stations

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Trains that carry goods





Goods trains

Some trains use coal or diesel as fuel to move; therefore they give out smoke. Electric trains are smokeless. Trains move on tracks.

Shakthi and his family boarded their train and reached Chennai.

Can you identify the kind of train that Shakthi and his family chose to reach Chennai? .....

Fill in the blanks.

a. The _____ train stops at all stations.

b. The _____ train carries goods.

c. _____ , _____ , _____ trains carry people.

Waterways

Shakthi and his family took a tour around Chennai. They visited the harbour.

Shakthi: "There are so many boats".



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Mother: "The smaller ones are called boats and the bigger ones are the ships. **Ships** carry a **large number of people and goods** from one country to another".

Think and Discuss

Do vehicles that move on water have any wheels? How do they move?

Vehicles on the Waterways



Catamaran
(Kattumaram)
Uses oars to move
Used for fishing



Motor boat
Uses fuel to move
Used for fishing and for pleasure rides



Sailing boat
Sails help it move
Used for travel and sport



Ship
Uses fuel to move
Carries goods and people over long distances

The **coracle** is used to travel on lakes and rivers for **short distances**. It can carry five to six people.



The children played on the sea shore.

Kavitha: "What a lovely visit!"

Write the names of the vehicles.



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Airways

The vacation was coming to an end. The family reached the Chennai Airport as they were flying back to Trichy. Shakthi, Kavitha and Kayal were really excited to see the aeroplanes.

Kayal: "Look at the planes landing and taking off. I want to be a pilot Appa".

Father: "Sure, you can. Observe the speed at which the aeroplanes are moving. They are the fastest means of transport".

Shakthi: "Does the aeroplane use fuel too?"

Father: "Yes, a special kind of fuel".

Kinds of Aircraft

This is a helicopter. It can carry a few people. It is used by the army to save lives and bring supplies during floods and other diffi culties.





This is an aeroplane. People use aeroplanes to go from one city or country to another. It also carries goods.

These are hot-air balloons. They are used to tell us about the weather, for advertisements and as a sport.





Have you seen white lines like these in the sky? What are they?

Think and Discuss

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Tick (✓) the vehicles that move in the air.



Road Safety





BUV5A

Have you seen this symbol?
Discuss it with your teacher.



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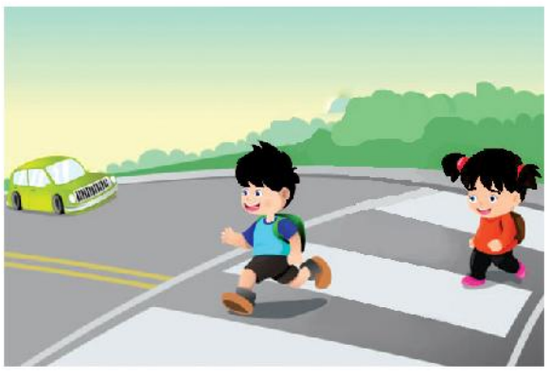
While riding a motor cycle, wear a helmet.



While driving a car, use the seat belt.



Do not run across the road.



Never go alone on the road. Always go with an elder.



Use the foot over bridge or subway to cross the road. If there are none, use the pedestrian crossing (Zebra crossing).







Cross when the traffic symbol of a person walking turns green.



2nd EVS_Transport_Term 3_Unit 3_EM.indd 87 12/10/2022 16:43:00

At some places, the road and the train track meet. It is called a level crossing. Never try to cross it when the gates are closed.





Common and Important Road Signs



School Zone
(Drive slow)



Unmanned Level Crossing
(Be careful when crossing)



Pedestrian Crossing
(Cross here only)



Bus Stop
(Bus stops here)



Level Crossing
(Check before you cross)



Do Not Horn
(Do not horn here)



No Parking
(Do not park your vehicle here)



Hospital Zone
(Do not horn)



'U' Turn
(Allowed to turn)

2nd EVS_Transport_Term 3_Unit 3_EM.indd 88 12/10/2022 16:43:02

Choose and write the correct answer.

1. The road sign  shown here means that a _____ is nearby.

   a. hospital zone b. school zone c. bus stop

2. This road sign  indicates a _____.

   a. bus stop b. no parking c. level crossing

Evaluation

4NMD6

1. Who am I? Tick (✓) the right answer.

a. I can run without fuel. (Car/Bicycle)

b. I stop at all stations. (Passenger train/Superfast express)

c. I fly in the sky with a few people. (Aeroplane/Helicopter)

d. I can travel both on a lake and a river. (Boat/Ship)

2. Connect the words with the related pictures.







Sea

Air

Lake

Road

Track

Signal







2nd EVS_Transport_Term 3_Unit 3_EM.indd 89 12/10/2022 16:43:02

3. Choose and write the correct answer.

a. Fishermen use me to fish. _____

i) Catamaran ii) Bus iii) Train

b. I am used by the army to save people. _____

i) Scooter ii) Aeroplane iii) Helicopter

c. Electric trains _____ .

i) are smokeless ii) produce smoke iii) use diesel

4. Identify the incorrect pair based on the mode of transport and put a (✓) mark.

a. Ship, Sail boat b. Helicopter, Aeroplane

c. Bicycle, Lorry d. Car, Coracle

5. Write two actions that you should not do on the road.

a. _____ b. _____

6. Tick (✓) the vehicles that move using fuel.











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7. Observe, think and tick (✓) the correct actions.













Self Evaluation

- I can identify the different modes of transport.
- I follow road safety rules.

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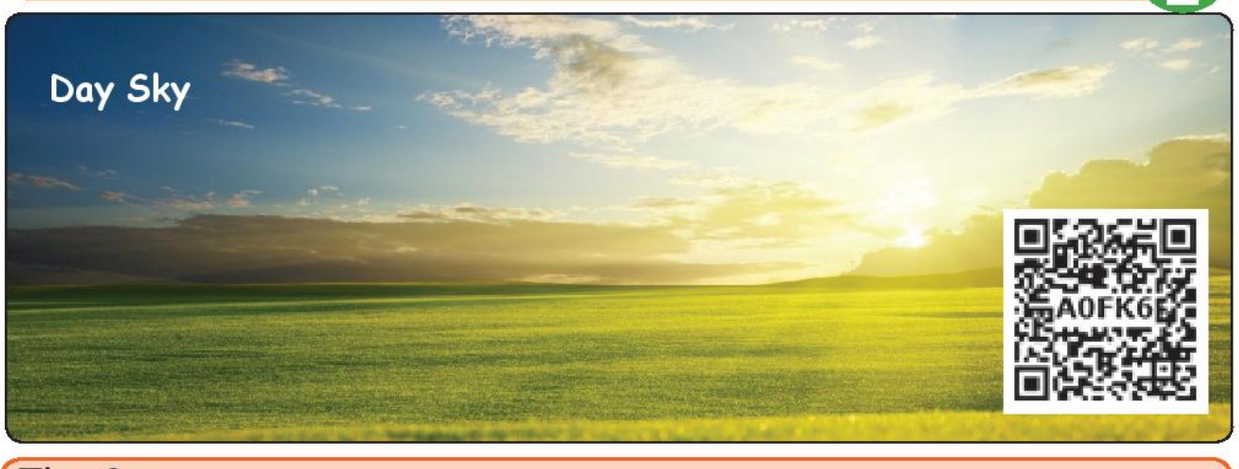
Unit 4

Day and Night

You will learn about

- The sky during the day and night
- Rhythms of the day and night
- Directions

Observe the picture. What do you see?



The Sun

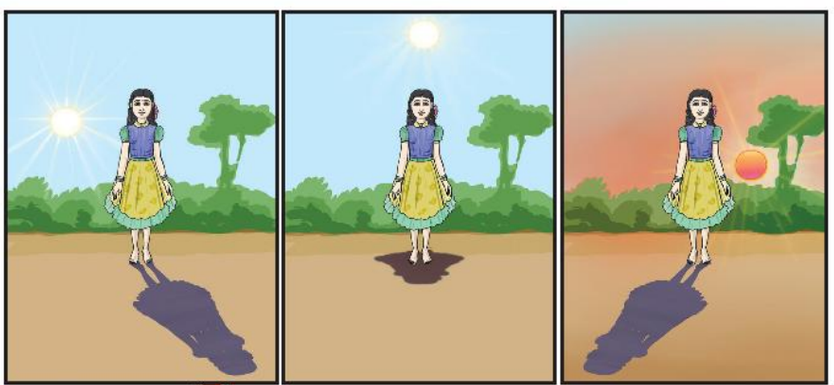
The Sun gives us light and heat. It helps plants grow. The Sun is much bigger than the earth where we live. The Sun looks small because it is far away from the earth. There will be no life on earth if there is no Sun.

DO YOU KNOW? The sunlight takes around 8 minutes to reach the earth.

Shadow

When an object does not allow light to pass through it, a dark area is formed. This is called a shadow.

Stand with your back to Sun. Look at the ground in front of you. What you see is your shadow. Find out if your shadow moves with you.



2nd EVS_Day and Night_Term 3_Unit 4_EM.indd 92 9/1/2022 5:05:34 PM

❖ Observe the things around you that make shadows and share it with your friends.

Have you noticed that the size of your shadow changes? Observe your shadow in the morning, afternoon and evening and find out its size.

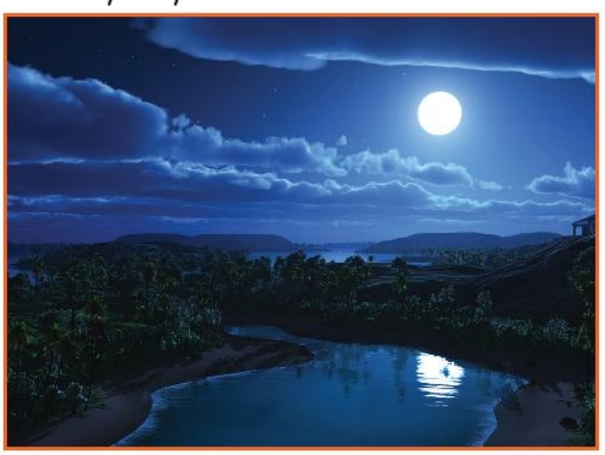
Shadow	Morning	Afternoon	Evening
Long / Short			

Night Sky

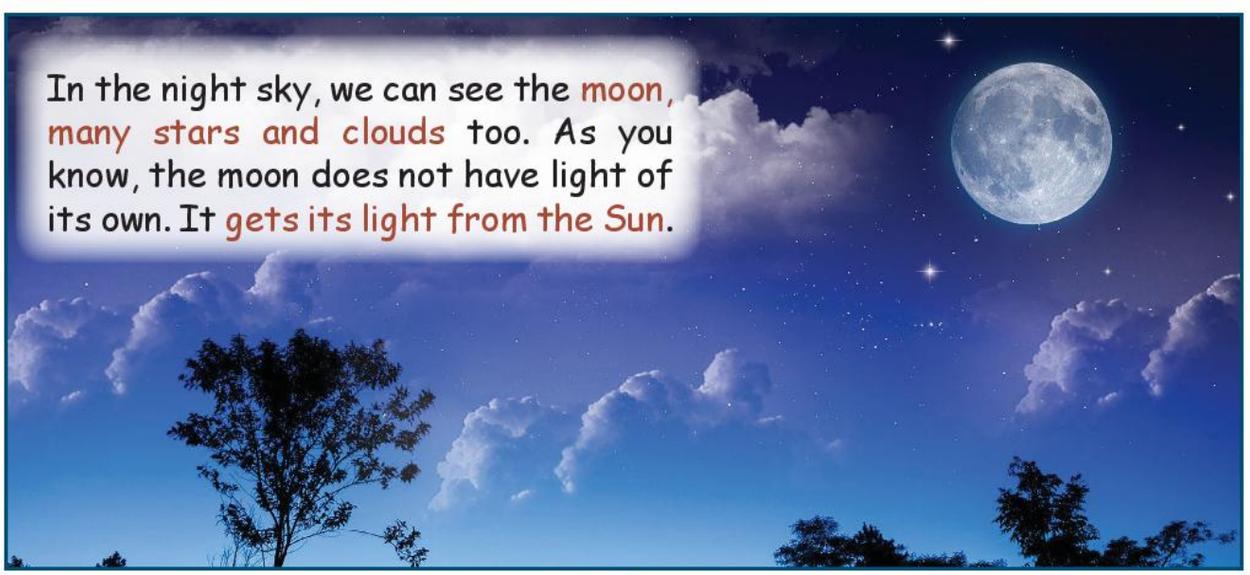
Let Us Discuss

Can we see in the dark? We need light to see things. Observe the pictures. How is the night sky different from the day sky?





The Moon



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Phases of the Moon

Let Us Discuss

Does the moon look the same every day? Observe the moon in the sky every night for fifteen days and find out.



The moon appears to change shape every night. On the night when we see it in its complete form, it is called the full moon (Pournami).

On the night when we cannot see the moon at all (even when the sky is clear), it is called the new moon (Amavasai).

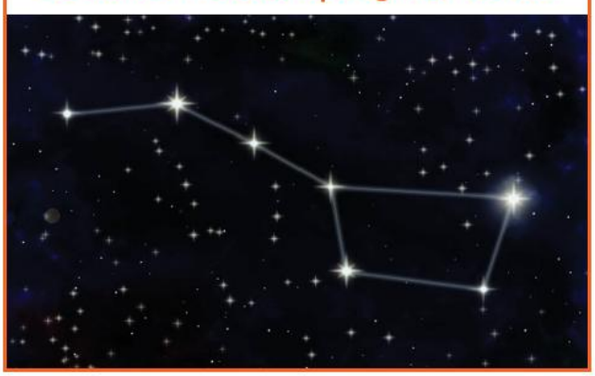
Many festivals are celebrated based on the phases of the moon - e.g., Eid, Mahalaya Amavasai.

DO YOU KNOW? Neil Armstrong was the first man to step on the moon.

The Stars

There are countless stars in the sky. The Sun is the nearest star. The stars shine during the day too, but we cannot see their light because the Sun is much brighter than the other stars. We see that a group of stars appears to form a pattern in the sky. Have you seen any star patterns?

Observe the example given below.



DO YOU KNOW? The position of the pattern of stars helped people to know when to sow and harvest crops. They also helped people to find directions during travel.

Match the following.

a) Sun	-	a dark area that travels with me
b) Stars	-	does not have its own light
c) Moon	-	form patterns
d) Shadow	-	helps plants grow

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Rhythms of Day and Night

Day and night follow each other in a rhythmic way. Most animals and plants are active during the day and sleep at night. Some plants close their leaves by evening, e.g., Rain tree (Thoongu-Moonji Maram). However, some animals are active at night. The bat, owl, wild big cat, mouse, wolf, cockroach and firefly are examples of animals that are active at night.



Bat



Owl



Mouse



Wild Cat



Wolf



Cockroach



Firefly

They are active at night to:

- Catch other animals wandering at night for their food
- Avoid animals that eat them during the day
- Avoid the heat of the day

They have:

- Big eyes (owl, cat)
- A sharp sense of smell (mouse, dog)
- Good hearing (bat)

DO YOU KNOW?

Bats use sound waves to fly and hunt. Owls can see what is behind them by rotating their heads almost fully.



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Most flowers bloom in the morning. However some flowers bloom at night. Examples are Jasmine, Water lilies, Tuberose, Cactus flower, Datura flower. Many of them have a lovely fragrance. Many are white in colour though some have attractive colours.



Jasmine (Malligai)



Water lily (Alli)



Tuberose (Sampangi)



Cactus flower (Chappathi kalli)



Datura (Oomatham poo)

DO YOU KNOW?



The Bethlehem Lily (Nishagandhi) is called the "Queen" of the flowers that bloom at night.

Identify and tick (✓) the animals that are active at night.









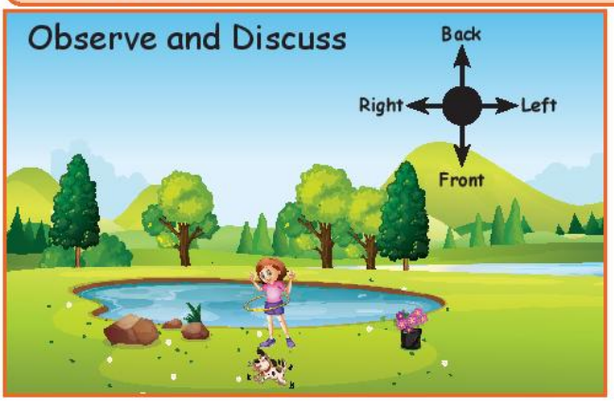






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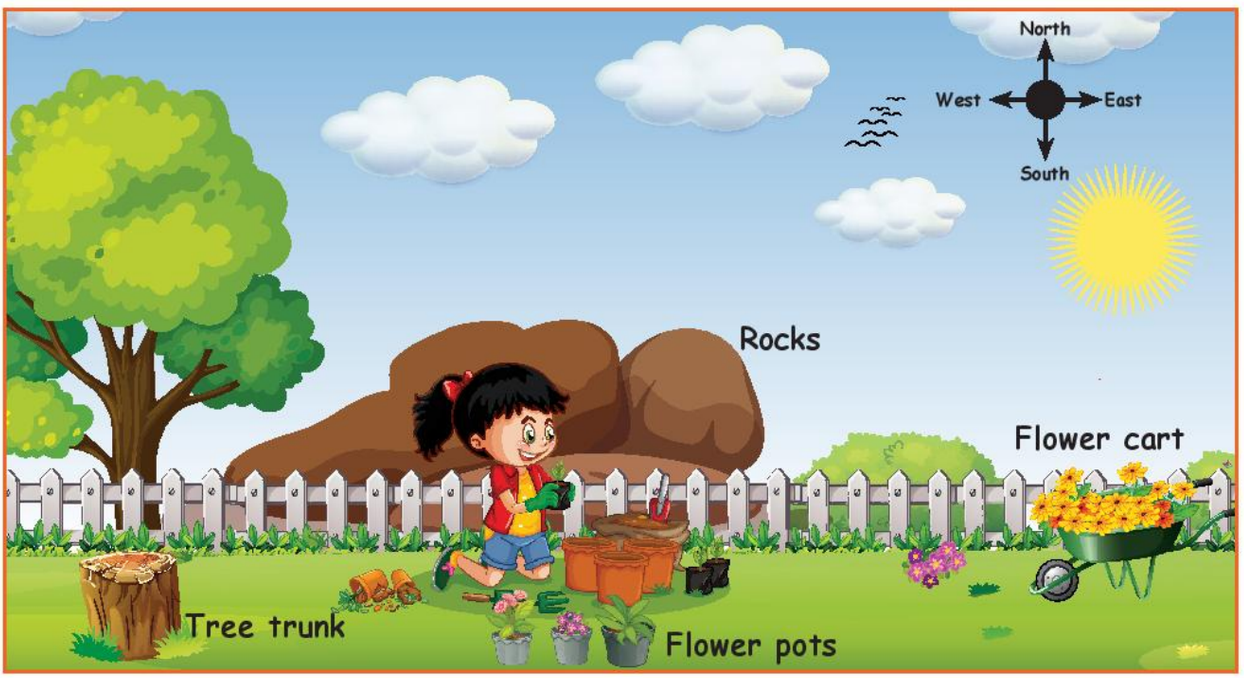
Directions



Front, back, right and left tell us where things are, based on a reference point. North, South, East and West tell us where places and things are, based on the position of the Sun. They are called directions. Directions help us reach a place without getting lost.

The Sun appears to rise in the East and set in the West. Now stand facing the Sun in the morning (i.e. East). Behind you is West. To your right is South. To your left is North.

Observe the picture given below. In the centre is Meera. To her South are the flower pots, to her North are the rocks, to her East is the flower cart and to her West is the tree trunk.



In your school, identify the eastern direction by finding out where the Sun rises. Ask your teacher to help you. Then find the direction in which the following are situated - water tank, flag post, playground, toilet, kitchen, gate and water tap. Tabulate your answer.

North	South	East	West

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Evaluation

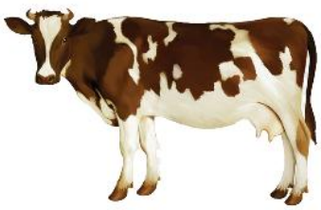
CSFJG

1. Label the pictures. (Moon, Earth, Stars, Sun)






2. Write the names of the animals that are active at night. (cow, wolf, deer, cockroach, monkey, firefly, rabbit, squirrel, rat)







....






....

3. Write 'T' if True and 'F' if False.

a. The Sun gives us light and heat. ☐

b. The shape of the moon changes every night. ☐

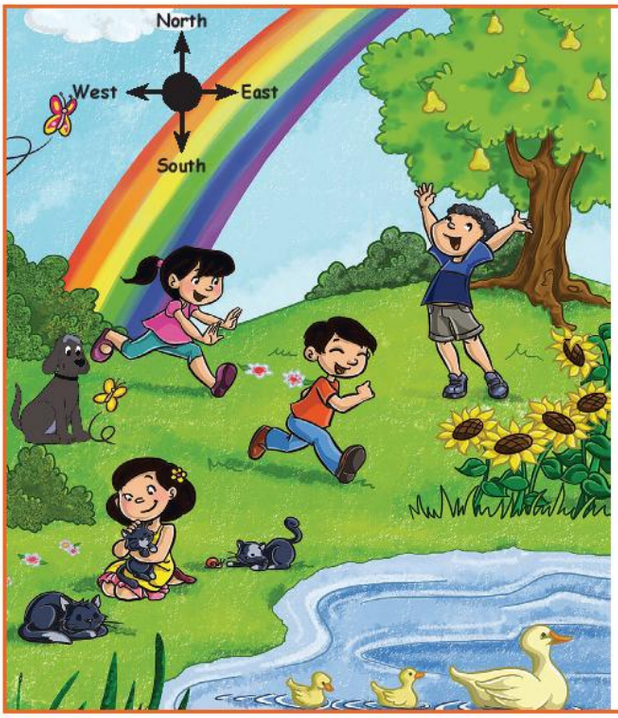
c. Groups of stars appear in many patterns. ☐

d. The Jasmine blooms during the day. ☐

e. When you stand facing East, to your right is West. ☐

2nd EVS_Day and Night_Term 3_Unit 4_EM.indd 98 9/1/2022 5:06:04 PM

4. Observe the given picture and fill in the blanks. (tree, flowers, pond, dog)



a. The_____ is in the South side of the garden.

b. The_____ is in the North side of the garden.

c. The _____ are on the East side of the garden.

d. The _____ is to the West side of the garden.

5. Identify the flowers that bloom at night by putting a tick (✓) mark.






Self Evaluation

★ I have observed the features of the day and night sky.

★ I can identify some animals and plants that are active at night.

★ I can identify the directions.

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Unit 5

Wonders of Nature



You will learn about

- Some wonders of nature - plants and animals
- Colours and fragrance of flowers

Wonders of Nature – Plants

Nature is full of wonders. Shall we explore some of them?

Lily

Why does water not stay on the leaf of the lily?





The leaf of a lily has a waxy coat on the upper surface. It has a notch too. Water does not stay on the leaf because of the notch and the waxy coating.

Nuts under the soil

Usually nuts are seen on the stem part of the plant. In groundnut plants, the nuts are under the soil.

Nuts are also called seeds.



Kurinji



The Kurinji or Neelakurinji shrub is found in the Nilgiri mountains in Tamil Nadu.

The flowers of the Neelakurinji bloom only once in 12 years.

They are purple blue in colour. Nilgiri, the Blue Mountain, gets its name from these flowers.

2nd EVS_Science in every day life_Term 3_Unit 5_EM.indd 100 9/1/2022 5:07:47 PM

Touch Me Not Plant

Have you seen this plant? It is found in many places.

It is a small herb. When you touch the leaves of this plant, they close. So it is called the 'Touch Me Not' plant. The leaves open a few minutes later.



Leaves open



Leaves closed

Calotropis - Erukku

Calotropis is a shrub. It has a group of waxy flowers. Its flowers are either white or lavender in colour. It is also known as the 'Crown Flower' since it looks like a crown.







Draw and colour the Erukku leaf.



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Colour and Fragrance of Flowers

Flowers have beautiful colours and many have fragrance. Insects are friends of the flowers. They are attracted by the colour and smell of flowers. Flowers have nectar. Insects and birds come to suck the nectar from the flowers.





Many of the flowers that bloom at night are white in colour and they have a wonderful fragrance.





Night- Flowering Jasmine (Pavazhamalli)

Spanish Cherry (Magizhampoo)

Jasmine (Malligai)

Many of the flowers that bloom during the day have attractive colours and are less fragrant.





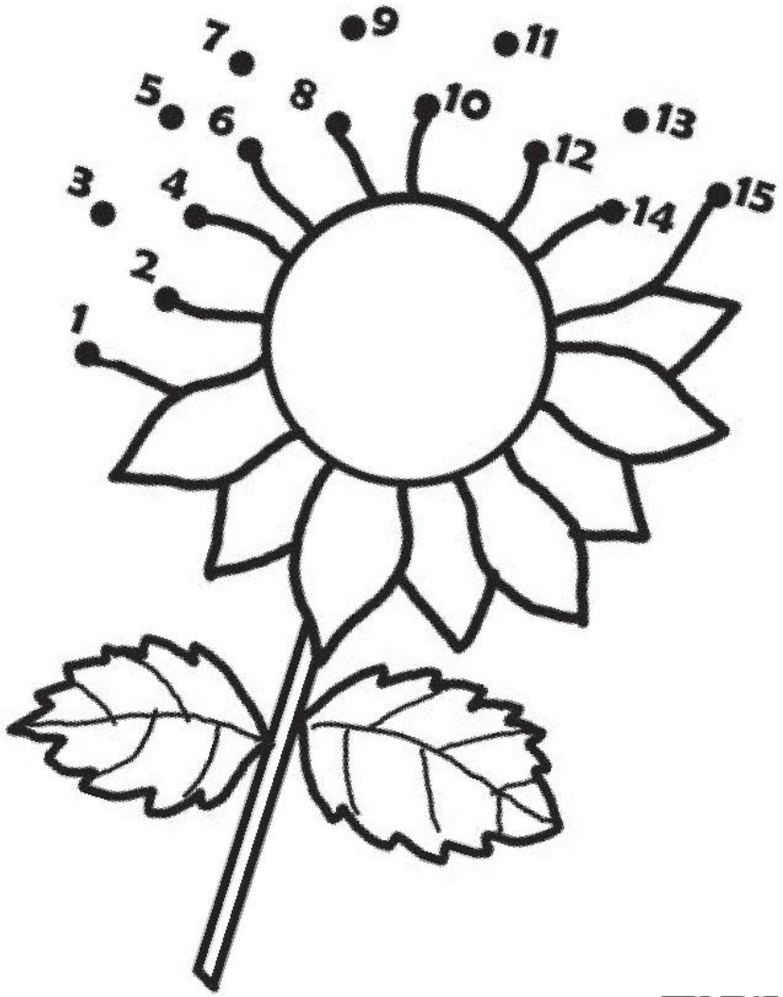
Butterfly Pea (Sangu Poo)

Jungle Flame (Vetchi Poo)

Periwinkle (Nithiyakalyani)

2nd EVS_Science in every day life_Term 3_Unit 5_EM.indd 102 9/1/2022 5:07:54 PM

Join the dots and colour the picture.



Wonders of Nature-Animals

FZ05B

Chameleon

Have you seen this animal? It is called a chameleon. It is a type of lizard. It changes its skin colour to merge with the surroundings. This helps it to escape from its enemies.

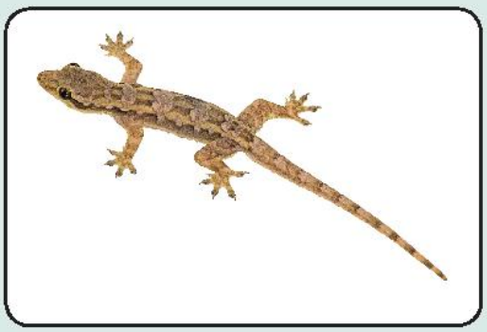




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Lizard

Have you seen a lizard clinging upside down on the ceiling? Lizards have toe pads that help them stick on to the wall. If the tail of the lizard is cut, it grows back in one or two months.





Spider

Do you remember that insects have only six legs? Spiders are not insects because they have eight legs. Spiders make threads called spider silk with which they create spider webs. The threads in the web are very strong and sticky. The webs help the spider catch insects like flies for its food.





Dog

Dogs can smell much better than us. They can even hear very soft sounds and sounds from far away. They are trained and used by the police to identify thieves. These dogs are called sniffer dogs. They are also used to search for people during natural disasters like earth quakes.



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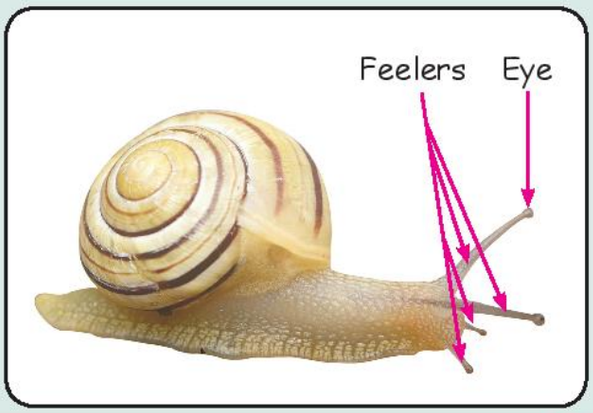


Rat

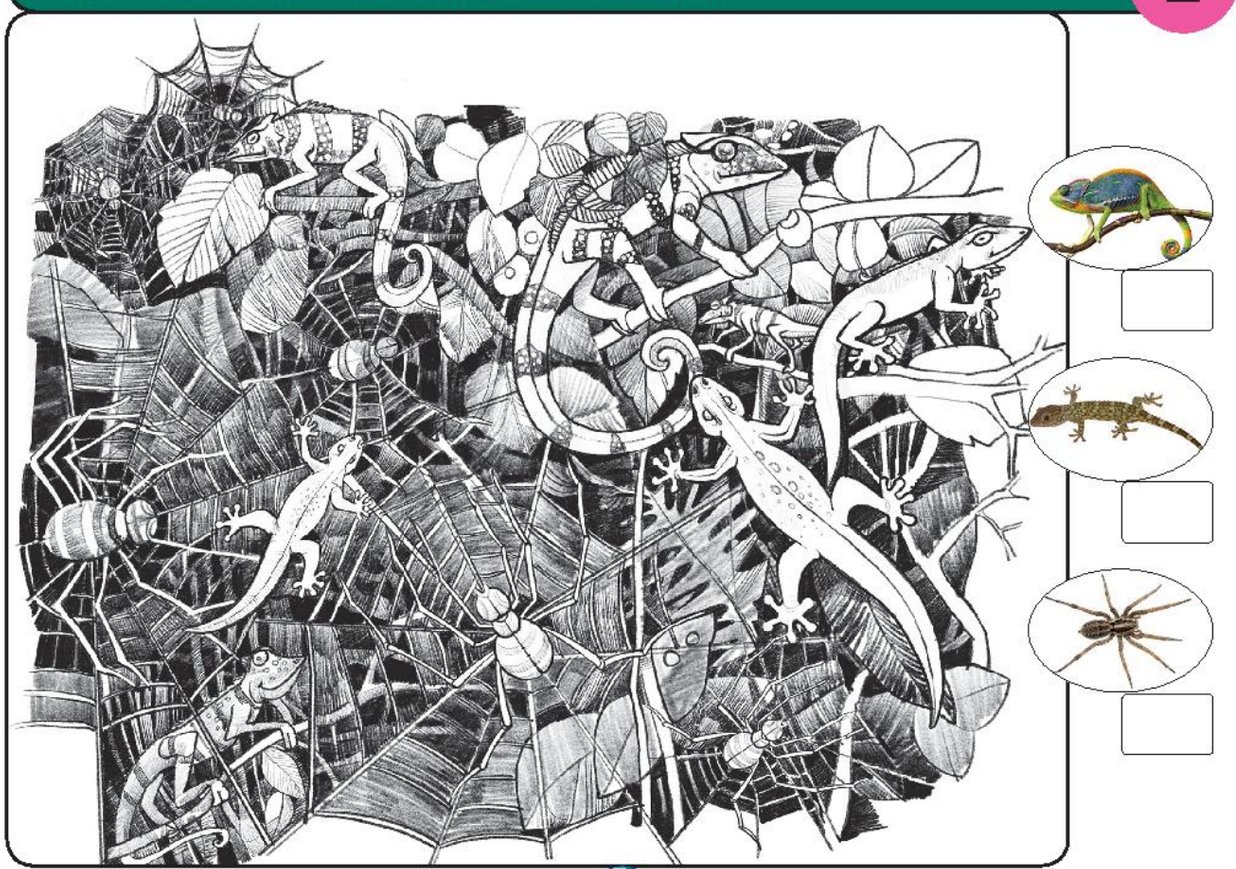
The rat is a small animal that lives in houses and fields. Rats can live without water for even longer periods of time than camels. They can bite hard wood with their teeth. Some of their teeth keep growing. Rats grind their teeth to prevent them from becoming too big.

Snail

The snail has two pairs of feelers on its head. One pair is long and the other is short. The eyes are on the longer pair. If we touch the snail, it pulls its body back into its shell like a tortoise.



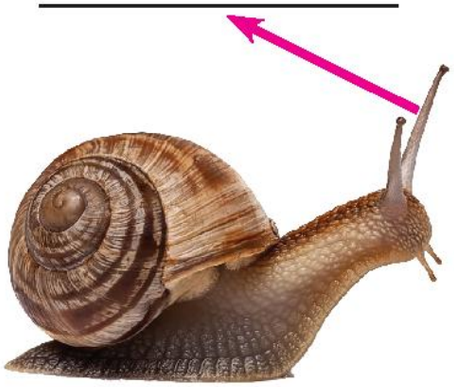
Spot and count the different animals.

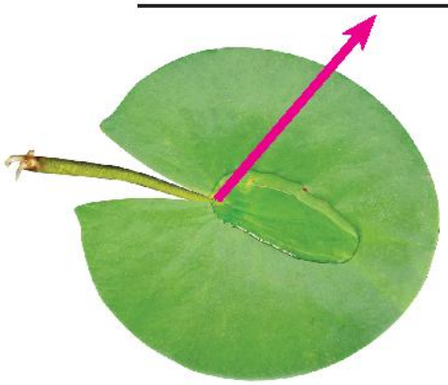


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Evaluation

1. Label the parts. (Notch, Feeler)





SFWYA

2. Fill in the blanks and identify the plant and animal.



I bloom in the_____. (mountains /deserts)

I am _____ in colour. (brown / purple blue)

The name _____ is because of me. (Nilgiri/ Yelagiri)

Who am I ? _____



I have _____ pairs of feelers. (2/4)

My eyes are seen on the _____. (feelers/tail)

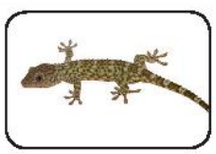
I pull my body back into my shell.

Who am I? _____

3. Match the following.

a.





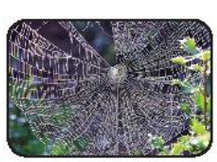




b.









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4. Fill in the blanks with suitable words.

a. In groundnut plants, the nuts are seen _____the soil. (above / under)

b. In the Erukku plant, the flowers are _____shaped. (crown / spherical)

c. Insects suck the honey _____ from the flower. (leaf / nectar)

d. The _____ is not an insect. (bee / spider)

e. In a _____ the tail grows again when cut. (dog / lizard)

5. Choose and write the name of the flowers and the animal.

(Jasmine / Calotropis) (Spider / Snail) (Jungle Flame / Butterfly pea)







_____ _____ _____

Self Evaluation

I observe and admire the wonders of the plant and animal world around me.



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Environmental Science - Class - II, Term-III
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