



# SCIENCE WORK BOOK

Part - II



6<sup>th</sup> STANDARD

2020-21

Name : \_\_\_\_\_

School Name : \_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_



DEPARTMENT OF STATE EDUCATIONAL RESEARCH AND TRAINING

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(ವಿದ್ಯಾರ್ಥಿಗಳ ಗುಣಮಟ್ಟದ ಕಲಿಕೆಗಾಗಿ)

ಪರಿಕಲ್ಪನೆ ಮತ್ತು ಮಾರ್ಗದರ್ಶನ

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## ಮುನ್ನುಡಿ

ನಿರಂತರವಾಗಿ ಬದಲಾಗಿರುತ್ತಿರುವ ಜಗತ್ತಿನಲ್ಲಿ ಮಗುವು ತನ್ನ ಜ್ಞಾನವನ್ನು ತಾನೇ ಕಟ್ಟಿಕೊಳ್ಳಲು ರಾಷ್ಟ್ರೀಯ ಪಠ್ಯಕ್ರಮ ಚೌಕಟ್ಟು (NCF-2005) ಕರ್ನಾಟಕ ರಾಜ್ಯ ಪಠ್ಯಕ್ರಮ (KCF-2007) ಹೆಚ್ಚು ಒತ್ತು ನೀಡಿದ್ದು. ಮಗುವು ಶಾಲೆಯ ಹೊರಗಿನ ಬದುಕಿಗೆ ತಾನು ಗಳಿಸಿದ ಜ್ಞಾನ ಸಂಯೋಜನೆಗೊಳಿಸುವಂತಹ ಶೈಕ್ಷಣಿಕ ಚಟುವಟಿಕೆಗಳ ಆಯೋಜನೆಯ ಮಹತ್ವವನ್ನು ಎತ್ತಿ ಹಿಡಿದಿವೆ. ಮಕ್ಕಳ ಜ್ಞಾನಾಭಿವೃದ್ಧಿಪಡಿಸುವುದಕ್ಕಿಂತಲೂ ಮಕ್ಕಳ ಕಲಿಕಾನುಭವಗಳನ್ನು ಅಭಿವೃದ್ಧಿಪಡಿಸುವುದು ಅಗತ್ಯವೆನಿಸಿದೆ.

6ನೇ ತರಗತಿಯ ವಿದ್ಯಾರ್ಥಿಗಳ ಜ್ಞಾನ ಅನುಭವ ಮತ್ತು ವಯೋಮಾನವನ್ನು ಗಮನದಲ್ಲಿರಿಸಿ ಈ ಅಭ್ಯಾಸ ಪುಸ್ತಕವನ್ನು ರಚಿಸಲಾಗಿದೆ. ಪಠ್ಯದಲ್ಲಿ ಬಂದಿರುವ ಪ್ರಶ್ನೆ ಮತ್ತು ಅವುಗಳ ಸ್ವರೂಪಕ್ಕಿಂತಲೂ ಭಿನ್ನ ನೆಲೆಯಲ್ಲಿ ಈ ಅಭ್ಯಾಸ ಪುಸ್ತಕವನ್ನು ಪ್ರಸ್ತುತಪಡಿಸಲು ಪ್ರಯತ್ನಿಸಲಾಗಿದೆ. ಮಗುವಿನ ಯೋಜನಾ ಲಹರಿಯನ್ನು ಪ್ರೇರೇಪಿಸಿ ತನ್ನ ನೈಜ ಭಾವಾಭಿವ್ಯಕ್ತಿಗೆ ಅವಕಾಶ ನೀಡುವಂತಹ ಚಟುವಟಿಕೆ ಮತ್ತು ಪ್ರಶ್ನಾವಳಿ ರೂಪಿಸಲಾಗಿದೆ.

ಈ ಅಭ್ಯಾಸ ಪುಸ್ತಕವು ಪಠ್ಯಪುಸ್ತಕಕ್ಕೆ ಪರ್ಯಾಯವಲ್ಲ. ಬದಲಾಗಿ ಮಗುವು ತನ್ನ ಕಲಿಕಾ ಅನುಭವಗಳನ್ನು ಕಟ್ಟಿಕೊಳ್ಳಲು ಪಠ್ಯಪುಸ್ತಕಕ್ಕೆ ಪೂರಕವಾಗಿರಲಿದೆ. ಈ ಅಭ್ಯಾಸ ಪುಸ್ತಕದಲ್ಲಿ ಜ್ಞಾನವಲಯಕ್ಕಿಂತಲೂ ತಿಳುವಳಿಕೆ ಮತ್ತು ಅನ್ವಯಕ್ಕೆ ಹೆಚ್ಚಿನ ಪ್ರಾಶಸ್ತ್ಯ ನೀಡಲಾಗಿದ್ದು, ಈ ಮುಖಾಂತರ ಮಗುವಿಗೆ ಅನುಭವದ ಮೂಲಕ ಜ್ಞಾನ ಕಟ್ಟಿಕೊಳ್ಳಲು ಅವಕಾಶ ನೀಡಲಾಗಿದೆ. ಕಂಠಪಾಠ ಮಾಡುವ ಅಂಶಗಳನ್ನು ಕಡಿಮೆಗೊಳಿಸಲಾಗಿದೆ. ಶಿಕ್ಷಣವನ್ನು ಇಂದಿನ ಹಾಗೂ ಭವಿಷ್ಯದ ಜೀವನಾವಶ್ಯಕತೆಗಳಿಗೆ ಹೊಂದುವಂತೆ ಮಾಡುವ ಸಲುವಾಗಿ ಮಗುವಿನ ಸ್ವಂತ ಅಭಿಪ್ರಾಯ ವ್ಯಕ್ತಪಡಿಸುವಂತೆ ಚಟುವಟಿಕೆ ಮತ್ತು ಪ್ರಶ್ನೆಗಳನ್ನು ನೀಡಲಾಗಿದೆ.

ಈ ಅಭ್ಯಾಸ ಪುಸ್ತಕವನ್ನು ಶಿಕ್ಷಕರಾಗಲಿ ಅಥವಾ ವಿದ್ಯಾರ್ಥಿಗಳಾಗಲಿ ಹೆಚ್ಚಿನ ಹೊರೆಯೆಂದು ಭಾವಿಸದೆ ಸಂತಸದಿಂದಲೆ ಬಳಸುವಂತಾಗಬೇಕು. ಇದಕ್ಕೆ ಅಗತ್ಯವಾದ ಸೂಚನೆಗಳನ್ನು ಆಗಾಗ್ಗೆ ನೀಡುವ ಮೂಲಕ ಸಮರ್ಪಕ ಮಾರ್ಗದರ್ಶನವನ್ನು ಶಿಕ್ಷಕರು ನೀಡಬೇಕಿದೆ. ಶಿಕ್ಷಕರ ಸೂಕ್ತ ಮಾರ್ಗದರ್ಶನದಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿಗಳು ಅಭ್ಯಾಸ ಪುಸ್ತಕದಿಂದಾಗಿ ತಮ್ಮ ಜ್ಞಾನವನ್ನು ತಾವೇ ಕಟ್ಟಿಕೊಳ್ಳುವಮತಾದರೆ ನಮ್ಮೆಲ್ಲರ ಮತ್ತು ಇಲಾಖೆಯ ಪರಿಶ್ರಮ ಸಾರ್ಥಕವೆನಿಸಲಿದೆ.

ಉಮಾಶಂಕರ್ ಭಾ.ಆ.ಸೇ  
ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿಗಳು  
ಪ್ರಾಥಮಿಕ ಹಾಗೂ ಪ್ರೌಢಶಿಕ್ಷಣ  
ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಬೆಂಗಳೂರು

## LEARNING OUTCOMES

The students are expected to acquire the following learning outcomes. Student's achievement should be mentioned in three grades 'very good' 'good' and Average grade given after every unit test. This indicated the actual learning outcome achieved by the student.

We request the teachers to help students to complete the work book with in the prescribed time, and achieve the said learning outcomes.

1. Understanding about characteristics of living organisms and their habitats.
2. Gives examples for different types of motion.
3. Understanding about light, shadows and reflection laws.
4. Understanding about electric cell and electric circuit and their components.
5. Lists the different types of magnets their characters and uses.
6. Understanding about importance of water and its conservation.
7. Understanding about components of air and their importance.
8. Understanding about waste management and hazards of usage of plastic.
9. Develops care about environment.
10. Measure different physical scales.
11. Discuss and appreciate scientific inventions.
12. Identify the reasons and effects of scientific processes.

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Unit – 9

**THE LIVING ORGANISMS**  
**CHARACTERISTICS AND HABITATS**

**I. Four alternatives are given for each questions. Choose the most appropriate alternative and write it with its alphabet.**

1. Platypus is

- A) Lay eggs  
B) Feed milk to their young  
C) only 'A' is correct  
D) Both 'A' and 'B' are correct
- 

2. The rose plant reproduce through \_\_\_\_\_

- A) Leaves  
B) Stem  
C) Root  
D) Flower
- 

3. Respiratory organ of Earth worm is

- A) Gills  
B) Lungs  
C) Skin  
D) All of these
- 

4. Respiratory organ of frog is

- A) Lungs  
B) Skin  
C) 'A' only  
D) Both A & B are correct
- 

5. Squids and octopus are

- (a) They stay deeper in the ocean  
(b) They hunt the prey and eat it  
(c) They catch only prey that moves towards them  
(d) They make their body shape streamlined.
- A) a, b and c are correct  
B) a, c, and d are correct  
C) Only a and b are correct  
D) Only a and d are correct
-

**II. Answer the following questions.**

1. What is adaptation ?

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2. What is the colour of flowers of plants that blooms in the night ?

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3. Write scientific name of 'touch-me-not' plant.

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4. Which is the reproductive part of potato ?

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**III. Find the odd one out from the following.**

1. Cactus, Date palm, Rose plant, Oleander

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2. Camel, Tiger, Kangaroo, rat, snake

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3. Yalk, Snow Leopard, Buffalo, Moutain Goat.

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4. Echidna, Platypus, Ostrich,

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5. Soil, Air, Water, Light, Microorganisms

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**IV. Give reason.**

1. Kangaroorat do not drink water in its life.

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2. Camel excretes thick urine.

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3. Sea water fish cannot live in freshwater.

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4. Yalks have thick fur on its body

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**V. Match the following.**

- |           |                   |
|-----------|-------------------|
| a) Moss   | i) Long hair      |
| b) Frog   | ii) Desert        |
| c) Cactus | iii) Plants       |
| d) Fishes | iv) Webfoot       |
| e) Yalk   | v) Fins           |
|           | vi) hooves        |
|           | vii) hilly region |

**Answers**

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**VI. Answer the following questions.**

1. Vehicles are move one place to another place like animals. But they are not called as living beings Give scientific reasons.

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2. Write the difference between aquatic plants and terrestrial plants ?

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**VII. Project work**

1. List aquatic animals found in your surroundings and name their respiratory organs.

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2. List the animals in the zoo you visited and classify them into terrestrial habitat animals, aquatic habitat animals and Amphibian animals.

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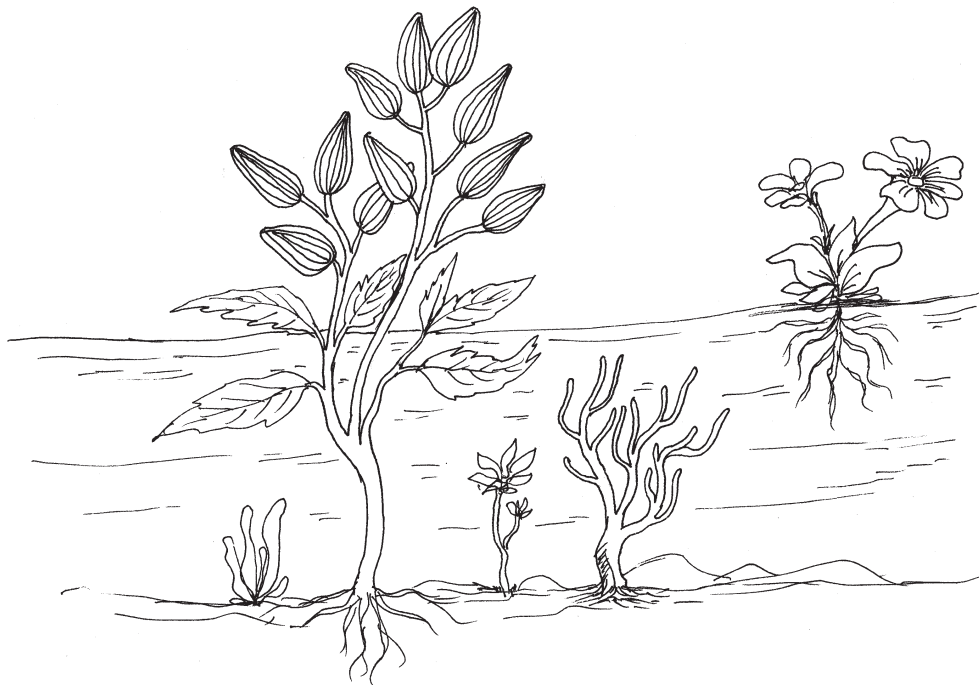
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IX.

(A) Write the habitats of the following Plants Shows in the figure.

i)



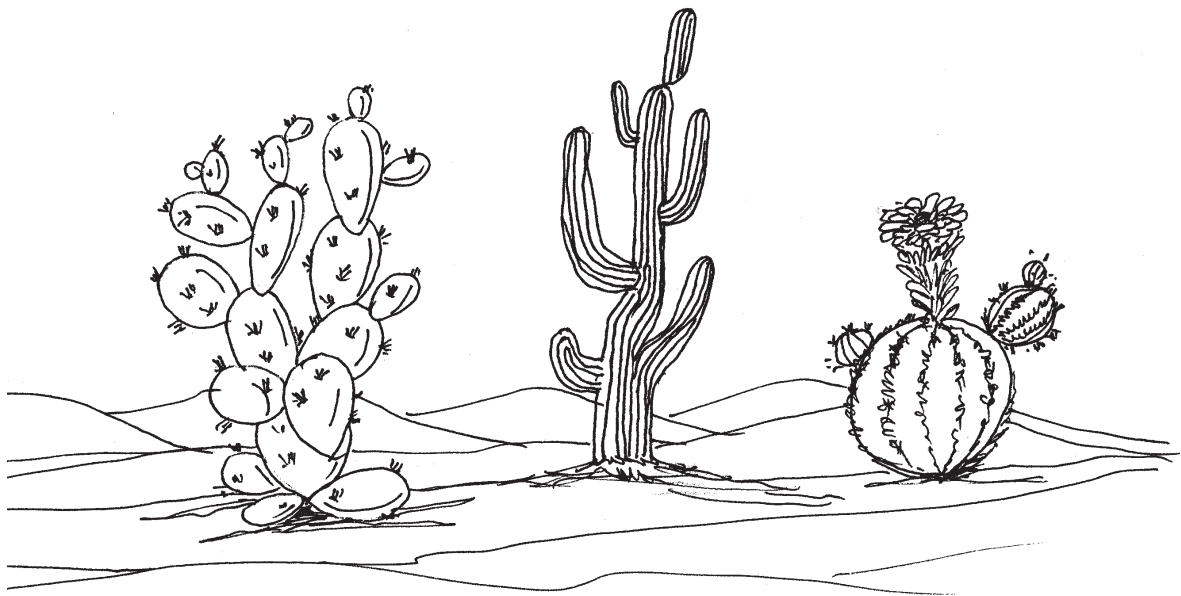
Ans : \_\_\_\_\_

ii)



Ans : \_\_\_\_\_

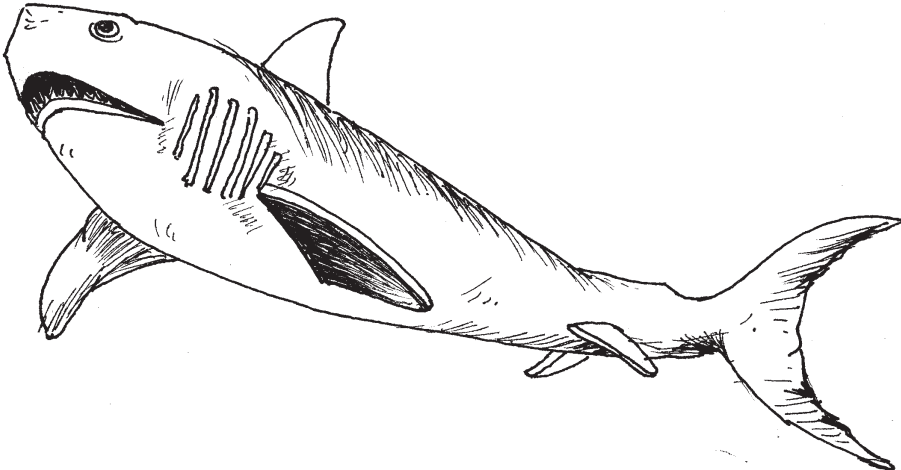
iii)



Ans : \_\_\_\_\_

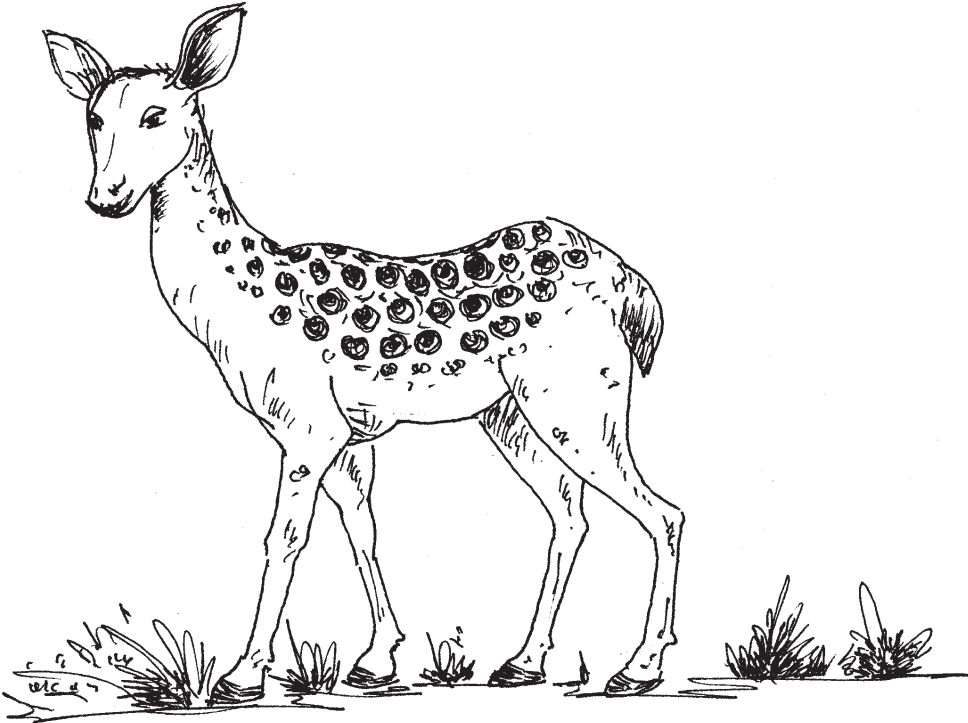
(B) Write the habitats of the following animals Shows in the figure.

i)



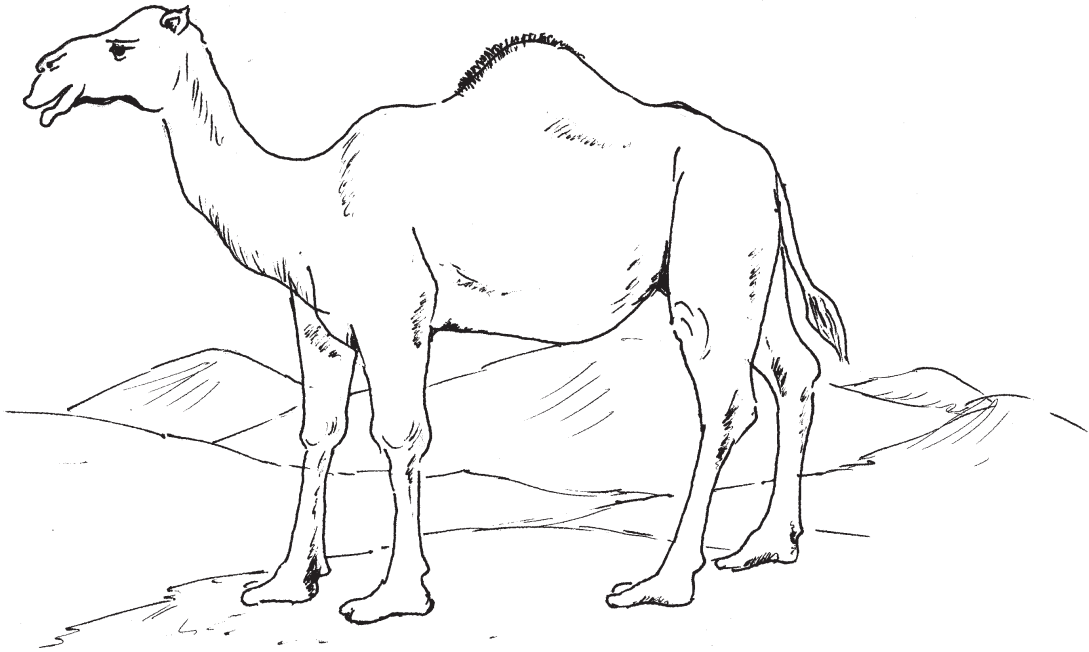
Ans : \_\_\_\_\_

ii)



Ans : \_\_\_\_\_

iii)



Ans : \_\_\_\_\_

### UNIT TEST

1. What are biotic and abiotic components ? give examples.

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2. What is Habitat ?

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3. What are the characteristics of desert habitat ?

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4. What are the characteristics of living things ?

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5. Dolphin and whale are respire through \_\_\_\_\_

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6. Give an example for animal living in mountain region

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### Student's self Assessment

Sl. No.	Learning Indicators	Yes	No
1.	I know the different types of habitats.		
2.	I am able to identify the different types of living organisms found in different habitats.		
3.	I list the characteristic of living organisms.		

### Teacher's Opinion

Very Good	
Good	
Average	



## Unit-10

### MOTION AND MEASUREMENT OF DISTANCE

#### I. Choose and write correct answer from four alternatives are given.

1. The unit used to measure distance between your home and school is

- (A) Kilometer (B) Foot  
(C) Yard (D) Angul
- 

2. Before the beginning of the 19th century people still depended upon this mode of transport

- (A) Trucks (B) Bullock cart  
(C) Motorised boats (D) Train
- 

3. Unit of length mostly used for garland

- (A) Angul (B) Mutthi  
(C) foot (D) Mola
- 

4. 5 km = \_\_\_\_\_ c.m.

- (A) 5,00,000 (B) 50,000  
(C) 5000 (D) 50
- 

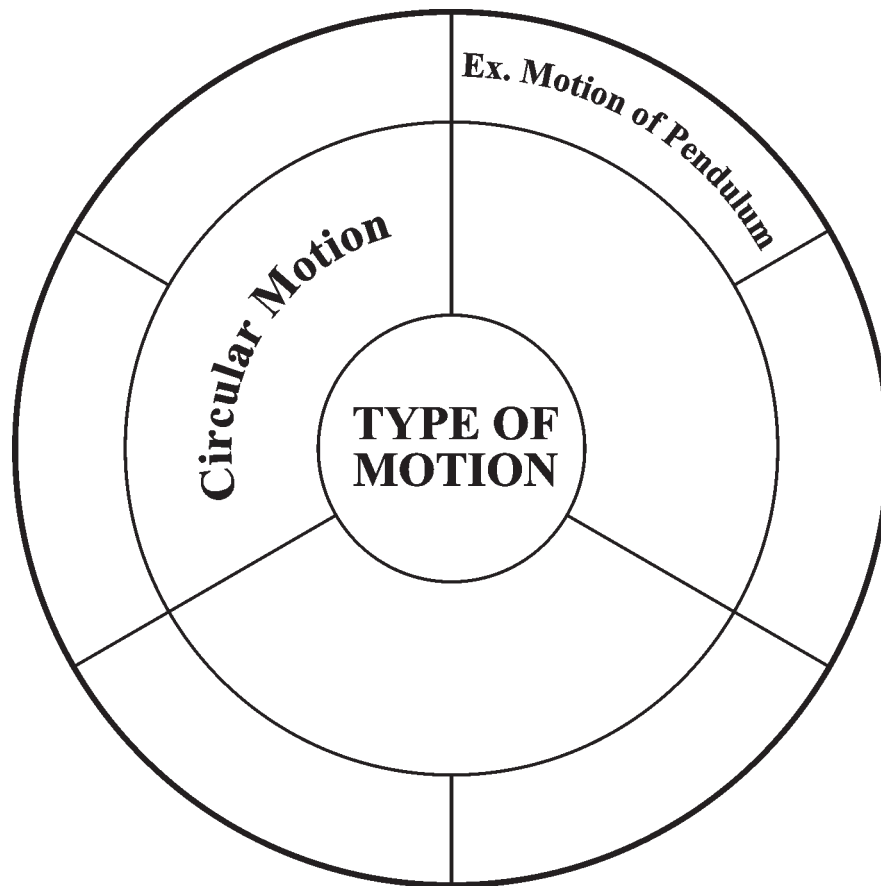
#### II. Choose appropriate unit for measurements given in the table.

[km/h, m/s, km/s, cm, meter]

Meaurements	Units
1. Velocity of Light	
2. Velocity of Sound	
3. Distance between Two Walls of a Room	
4. Length of a Pencil	
5. Speed limit of a Bus	



III. Using clues given in every part of a circle, fill the other parts of the circle with different colours.



IV. Find out The types of motion in the followings.

1. To and fro movement of leaf.

2. Motion of hands of clock

3. Spinning teetotum

4. Motion of swing

5. Merry-Go-Round.

6. Motion of a corrom pan

7. Spinters in a 800 meter race.

8. Motion of needle of a sewing machine.

9. Motion of rods in chilli powdering machine

10. Vibrating blade

**IV. Name the tools for measure the followings.**

1. Land survey officer to meavure the land

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2. Cloth seller to measure the length of the cloth.

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3. Tailer to take measurement of cloths.

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4. P.E. teacher to measure the weight of the student

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5. To measure angles of a triangle.

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**V. State whether the following statements are true or false, correct and rewrite the false statements.**

1. Planets revolve around the sun undergoes a rectilinear motion as well as rotational motion.

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2. Slowly rolling ball on the ground undergoes a rectilinear motion as well as periodic motion.

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3. A snail moving upwardly on the wall undergoes a rectilinear motion as well as periodic motion.

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4. Satellite revolve around the planet undergoes rectilinear as well as rotational motion.

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5. Change in the position of an object with time is called motion.

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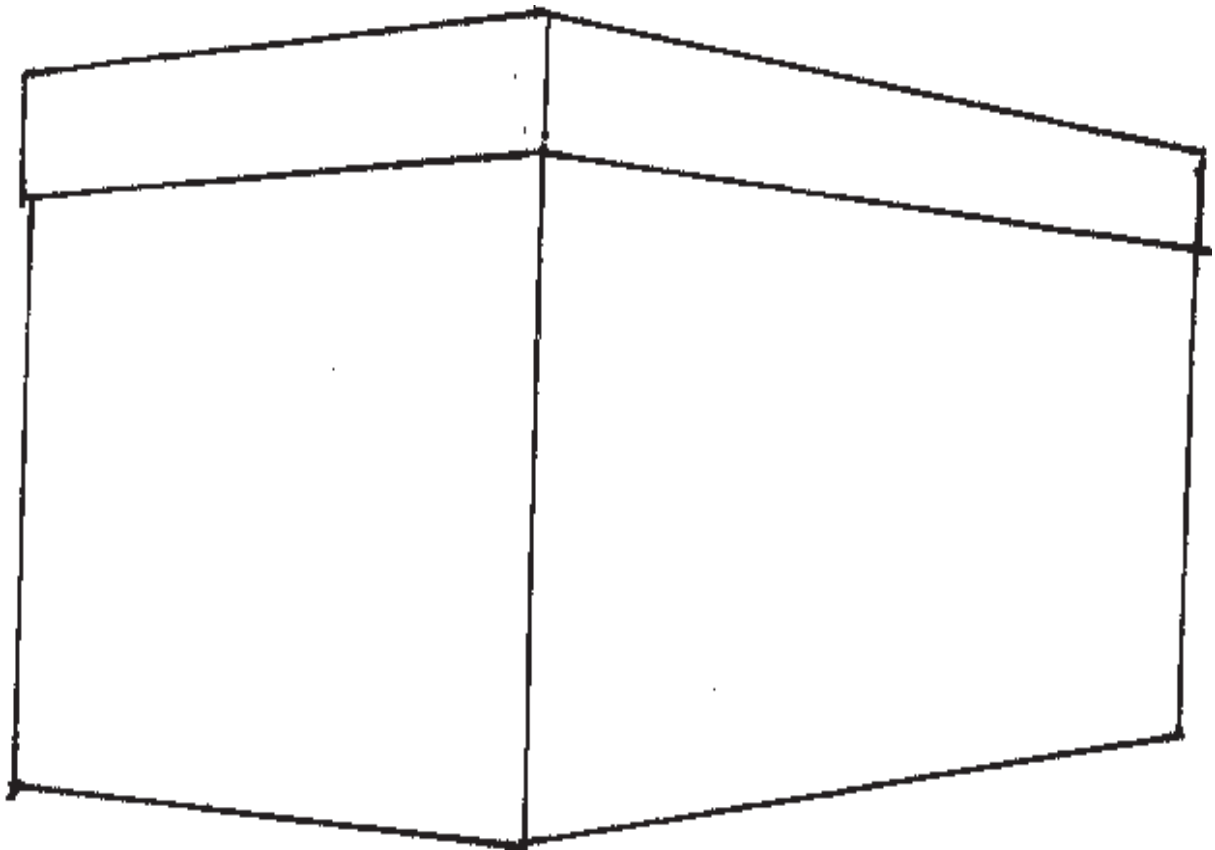
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**VI. Activity**

Measure the length and height of the box and convert the scale in to meter



## UNIT TEST

**Answer the following questions.**

1. Suggest the suitable measuring unit to measure length of your classroom ?

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2. Which unit is Suitable for measure land or site ?

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3. What is periodic motion ? Give an example

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4. What is rectilinear motion ? Give an example.

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5. One kilometer = \_\_\_\_\_ meter.

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6. Who created a standard unit of measurement ?

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### Student's self Assessment

Sl. No.	Learning Indicators	Yes	No
1.	I know the different types of motion.		
2.	I ready to give the examples of different types of motion.		
3.	I know the S.I. unit of different measurement.		

### Teacher's Opinion

Very Good	
Good	
Average	

**Unit-11**

**LIGHT, SHADOWS AND REFLECTIONS**

**I. Fill in the blanks with suitable word.**

1. Lunar eclipse is a shadow of \_\_\_\_\_ on the moon.

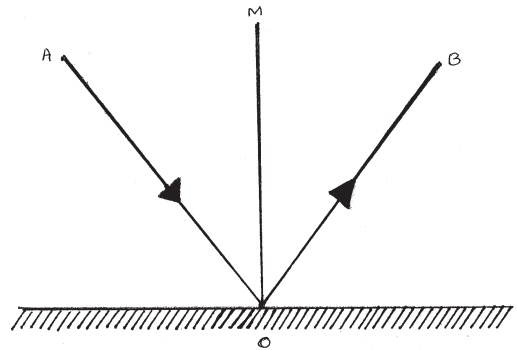
\_\_\_\_\_

2.

In the figure

i) AO is \_\_\_\_\_ ray

ii) OB is \_\_\_\_\_ ray



3. White paint of wall \_\_\_\_\_ the more light.

4. For photosynthesis \_\_\_\_\_ is essential.

5. Shadow are formed when an \_\_\_\_\_ objects comes in the path of light.

**II. Indicate true or false among the sentences if false, correct it and Rewrite the sentence.**

1. Only eyes are help us to see objects.

\_\_\_\_\_  
\_\_\_\_\_

2. Tracing paper is opaque material.

\_\_\_\_\_  
\_\_\_\_\_

3. Glow-worm is luminous creature.

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4. Venus is luminous planet

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5. When colour of object is changed, the colour of the shadow also changes.

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6. Light is necessary for working of microscope and telescope.

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7. Image formed in the mirror is virtual.

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8. Only smooth surfaces reflect the light.

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**III. Classify the following objects into transparent, opaque and translucent objects.**

Marble, Chalk, Black Board, Mirror,  
Glass Oil paper Thin plastic paper Glass bowl,  
Steel vessal, Pencil Rubber Note Book  
Desk Sandals Pure water

Transparent	Opaque	Translucent

**IV. Give scientific reason.**

1. We have to wear white coloured cloths during summer season.

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2. During night plant can't synthesis the food.

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3. Why ornamental materials of glass are polished ?

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4. Potted plants kept in the house move towards sunlight why?

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**V. Match the following.**

<b>A</b>		<b>B</b>	<b>Answers</b>
1) Smooth surface	a)	Diffuse reflection	_____
2) Photosynthesis	b)	Light refraction	_____
3) Rough surface	c)	Regular reflection	_____
4) Mirror image	d)	Light	_____
5) Candle	e)	Artificial source of light	_____
	f)	Light reflection	

**VI. Find the odd one out from the following.**

1. Polestar, sun, planet, Glowworm : \_\_\_\_\_
2. Pure water, Glass, lens, paper : \_\_\_\_\_
3. Stone, soil, waxpaper, Iron : \_\_\_\_\_
4. Mirror, Air, water, Prism. : \_\_\_\_\_

**VII. Answer the following questions.**

1. Draw comb experiment diagram from your text book. Write scientific concept you learnt from this activity ?

2. Do the Activity '6' given in your text book and write scientific concept you learnt from this activity.

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3. 'Light travels in a straight line.'

Write any four examples for this statement you have seen in your daily life.

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4. Write the direction of your shadow during morning, mid-day, and evening time.

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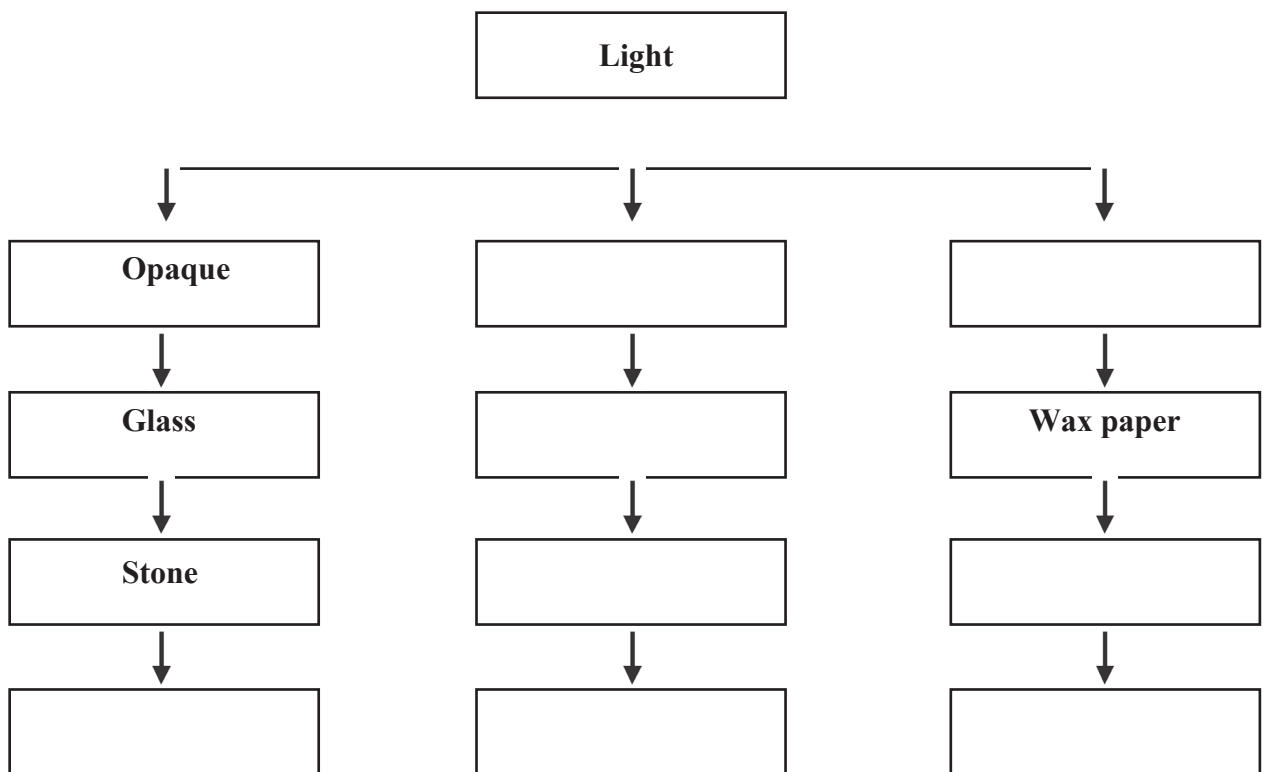
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**VIII. Complete the flow chart**



**IX. Find out Transparent, opaque and Translucent materials in following fuzzle.**

S	W	A	X	P	A	P	E	R	S	A
O	S	A	P	E	N	C	I	L	C	B
R	P	L	T	M	P	G	N	Z	A	D
U	W	Q	A	E	Z	L	K	W	L	C
B	M	C	S	T	R	A	D	O	E	K
B	S	T	E	E	L	S	P	O	O	N
E	U	E	N	O	T	S	O	D	R	L
R	P	L	A	S	T	I	C	S	T	Z

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## UNIT TEST

1. What are opaque materials ? give example.

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2. Give examples for transparent objects.

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3. List the natural sources of light.

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4. Light travels in \_\_\_\_\_ line.

5. Give examples for non luminous objects.

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### Student's self Assessment

Sl. No.	Learning Indicators	Yes	No
1.	I know the natural and artificial sources of light.		
2.	I list the given objects into transparent, semi transparent and opaque objects.		
3.	I know about the mirrors and their reflection.		

### Teacher's Opinion

Very Good	
Good	
Average	



## Unit-12

# ELECTRICITY AND CIRCUITS

I. Choose the correct answer from four alternative given to each question and write with its alphabet.

1. Charge of electron is \_\_\_\_\_ Coulombs

(A)  $-1.6 \times 10^{-19}$

(B)  $1.6 \times 10^{-19}$

(C)  $1.6 \times 10^{34}$

(D)  $-1.6 \times 10^{-34}$

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2. Which of the following is wrong statement about Drycell.

(A) It keeps potential difference between two terminals.

(B) It is type of electric cell

(C) It converts chemical energy into electrical energy.

(D) It not keeps potential difference between two terminals.

---

3. Material which allow electric current to pass is called as

(A) Transparent material

(B) Conductors

(C) Opaque material

(D) Insulators

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4. Electric circuit used in your house is

(A) Parallel circuit

(B) Parallel and series circuit

(C) Without fuse circuit

(D) Series circuit

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5. Wire (metal) used in electric bulb

(A) Copper

(B) Tungsten

(C) Lead and Tin

(D) Aluminium \_\_\_\_\_

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**II. Fill in the blanks as shown.**

**Ex : Iron Box : To Ironing of cloth.**

1. Torch : \_\_\_\_\_
2. Water Heater : \_\_\_\_\_
3. Electric Bulb : \_\_\_\_\_
4. Fan : \_\_\_\_\_
5. Television : \_\_\_\_\_
6. Electric Heater : \_\_\_\_\_

**III.**



1. What is this sign indicates. Where do you seen these sign ?

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2. What are the difference between conductors and insulators ?

<b>Conductor</b>	<b>Insulator</b>

3. Make a List of electric devices you used in your home.

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4. Depending upon of electric energy consumption, arrange these electric devices in descending order.

- a) CFL bulb
- b) Electric heater
- c) Television
- d) Refrigerator
- e) Tube light

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5. Draw a diagram of simple electric circuit

6. Insert dry cells in a torch and observe the glowing of torch bulb. When will be the bulb can glow ? when will be the bulb can not glow ? write the conclusion about your observations .

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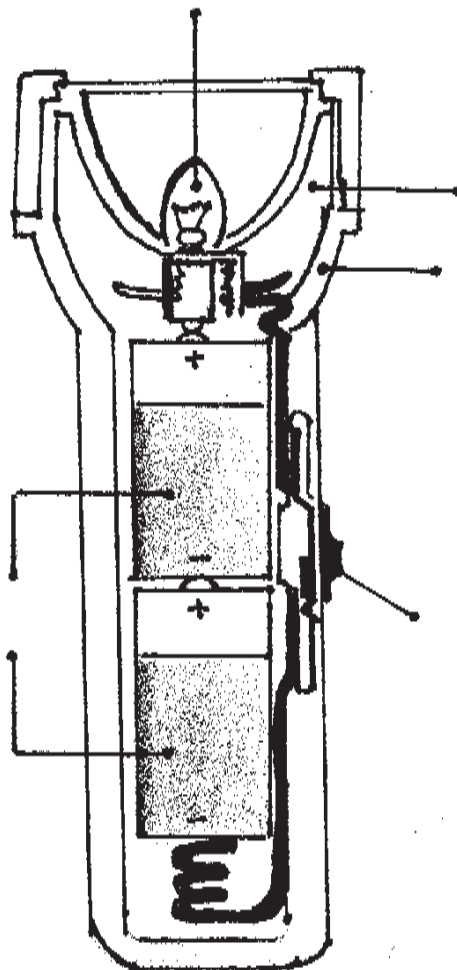
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**IV. Label the Parts of following device**



**V. Draw neat labeled diagram of a electric bulb.**

**VI. Dessect a dry cell and observe its inner parts, and draw the pictures of observed parts and name them.**

## UNIT TEST

1. What is a conductor ? give an example.

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2. What is the function of switch ?

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3. Name the terminals of a cell ?

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4. Draw a neat labelled diagram of dry cell.

5. What are the uses of dry cell ?

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**Student's self Assessment**

Sl. No.	Learning Indicators	Yes	No
1.	I know about conductors and non conductors.		
2.	I know the function dry cell and switch.		
3.	I know about the electrical circuits.		

**Teacher's Opinion**

Very Good	
Good	
Average	



Unit – 13

**FUN WITH MAGNETS**

**I. Answer the following questions in a sentence.**

1. Who discovered the magnetic compass first?

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2. Name the instrument to find the directions in a ship and aeroplane ?

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3. Name the type of magnet used by navigator?

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4. Which are the directions indicated by freely suspended magnet?

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5. Give some examples for magnetic materials.

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**II. Four alternatives are given for each questions choose appropriate alternative and write with alphabet.**

1. The correct method to protect the magnetic property of the magnet is

- A. Beating with hammer
- B. Heating magnet
- C. A wooden piece is kept between two bar magnets.
- D. Bar magnets should be kept in pair with their unlike poles on the same side and they separated by a piece of wood while two pieces of soft iron should be placed across their ends.

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2. Like poles of the magnets are always

- A. Attract each other                      B. Repel each other  
C. Both A & B are correct                D. Only 'B' is correct.
- 

3. 'Earth is also Magnet'. This concept was first introduced by :

- A. Newton                                      B. Michael Faraday  
C. Gilbert                                      D. Bhome
- 

4. When a magnet is heated then its magnetic power is

- A. Increases                                    B. loses  
C. Not changed                                D. None of the above
- 

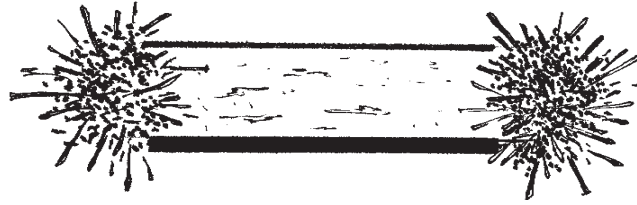
5. Natural ore of magnet occur in the earth crust is

- A. Dynamite                                    B. Limonite  
C. Magnetite                                    D. Siderite
- 

6. Earth magnet has \_\_\_\_\_ poles

- A. 3    B. 2  
C. 4    D. 1
-

7. A magnet is immersed in box containing iron fillings and taken out as shown in figure. Depending upon this which one of the statement is not correct.



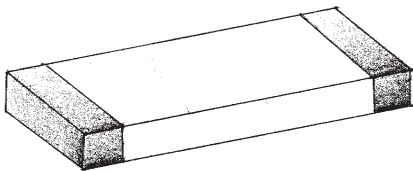
- A. Magnet attracts iron filling
  - B. Iron fillings are attracted more towards the two ends of bar magnet.
  - C. Iron fillings are attracted less in the middle of the magnet.
  - D. Attraction is same in all parts of the magnet.
- 
- 

**III. Match the following**

A

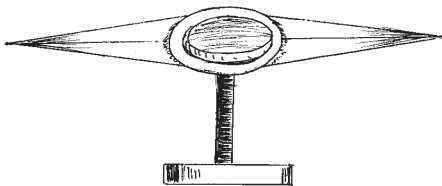
B

1.



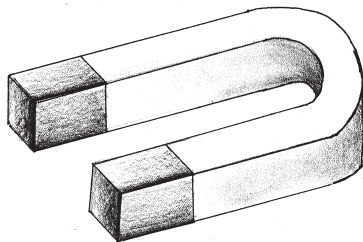
i) Horse shoe magnet \_\_\_\_\_

2.



ii) Bar magnet \_\_\_\_\_

3.



iii) Needle magnet \_\_\_\_\_

iv) Circular magnet \_\_\_\_\_



**IV. Answer the following questions in two or three sentences.**

1. List the properties of the magnet?

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2. Identify the devices from the list which are made with magnet.

Doorstopper, Electric fan, Refrigerator, Radio, Tape-recorder, Iron box, Washing machine, Electric bulb, Television (TV), Laptop.

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3. If a bar magnet is cut into small pieces. Every these small pieces shows magnetic property or not ? Justify your answer :

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## V. Activity

Make your own magnet from a piece of blade and attach this magnet to space given below and explain the steps of your activity.

## UNIT TEST

1. What is magnet ?

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2. What are the types of the magnet ?

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3. What are the properties of the magnet ?

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4. Draw a neat labelled diagram of drycell.

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5. Name any two devices that have magnet inside them ?

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### Student's self Assessment

Sl. No.	Learning Indicators	Yes	No
1.	I know the properties of magnets.		
2.	I know the use of magnetic compass.		
3.	I know the different types of magnets.		

### Teacher's Opinion

Very Good	
Good	
Average	



**Unit -14**  
**WATER**

**I. Four alternatives are given to each question. choose correct alternative and write it with its alphabet.**

1. It is necessary to convert water into steam.

- |            |           |
|------------|-----------|
| (A) Air    | (B) Light |
| (C) Vessel | (D) Heat  |
- 

2. In which form the condensed water vapour fall on the earth.

- |          |                      |
|----------|----------------------|
| (A) Rain | (B) Hail             |
| (C) Snow | (D) All of the above |
- 

3. The loss in the level of ground water due to

- |                    |                         |
|--------------------|-------------------------|
| (A) Deforestation  | (B) Raise in population |
| (C) Global warming | (D) All of the above    |
- 

4. The process of evaporation in shady region is

- |             |            |
|-------------|------------|
| (A) Extreme | (B) Slow   |
| (C) Faster  | (D) Medium |
- 

5. Water vapour gets continuously added to

- |         |           |
|---------|-----------|
| (A) Sky | (B) Earth |
| (C) Air | (D) Light |
-

6. When water vapour moves up higher from the surface of the earth, it becomes

- (A) Cool (B) Hot  
(C) No change (D) None of the above
- 

7. In which of the following slow evaporation process takes place

- (A) Water in pond (B) Water in plate  
(C) Water in bottle (D) Water in pot
- 

8. In which of the following, water usage is low

- (A) Washing cloth (B) Bathing  
(C) Toilet (D) Floor cleaning
- 

## II. Fill in the blank

1. The heavy rain water spread over large area causing \_\_\_\_\_
2. Water is essential for \_\_\_\_\_
3. About \_\_\_\_\_ glasses of water are required to produce each page of book.
4. Most of the water is in the \_\_\_\_\_ form.
5. Water released by the Plant into air through the Process of \_\_\_\_\_
6. Water vapour goes into air by evaporation and transpiration form clouds and then comes back to the ground as \_\_\_\_\_

**III. Answer the following questions.**

1. How much Percent of water is present in our Earth ?

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2. What provides heat for evaporation of water ?

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3. Name the process that plays an important role in bringing water back to the surface of earth?

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4. What is conservation of water ?

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**IV. Choose appropriate answer given in bracket.**

[ Condensation, Evaporation, Transpiration, Diffusion, Osmosis]

1. Water is released from lake to air

2. Water is released by plant into air.

3. Dew on plant leaf

4. Soaking of cloth

5. Conversion of water into Ice

**V. Give scientific reason**

1. Why seawater is salty ?

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2. Why water from wet land disappear after the rains?

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3. Naveen put his one wet shirt to dry in shade and another in sunlight ? Which shirt is dry first? why ?

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**VI. Answer the following questions.**

1. What is water cycle ?

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2. What are the effects of flood ?

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3. List the sources of water

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4. What is rain water harvesting ?

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5. How can we conserve water ?

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6. Name some types of rain harvesting you have seen ?

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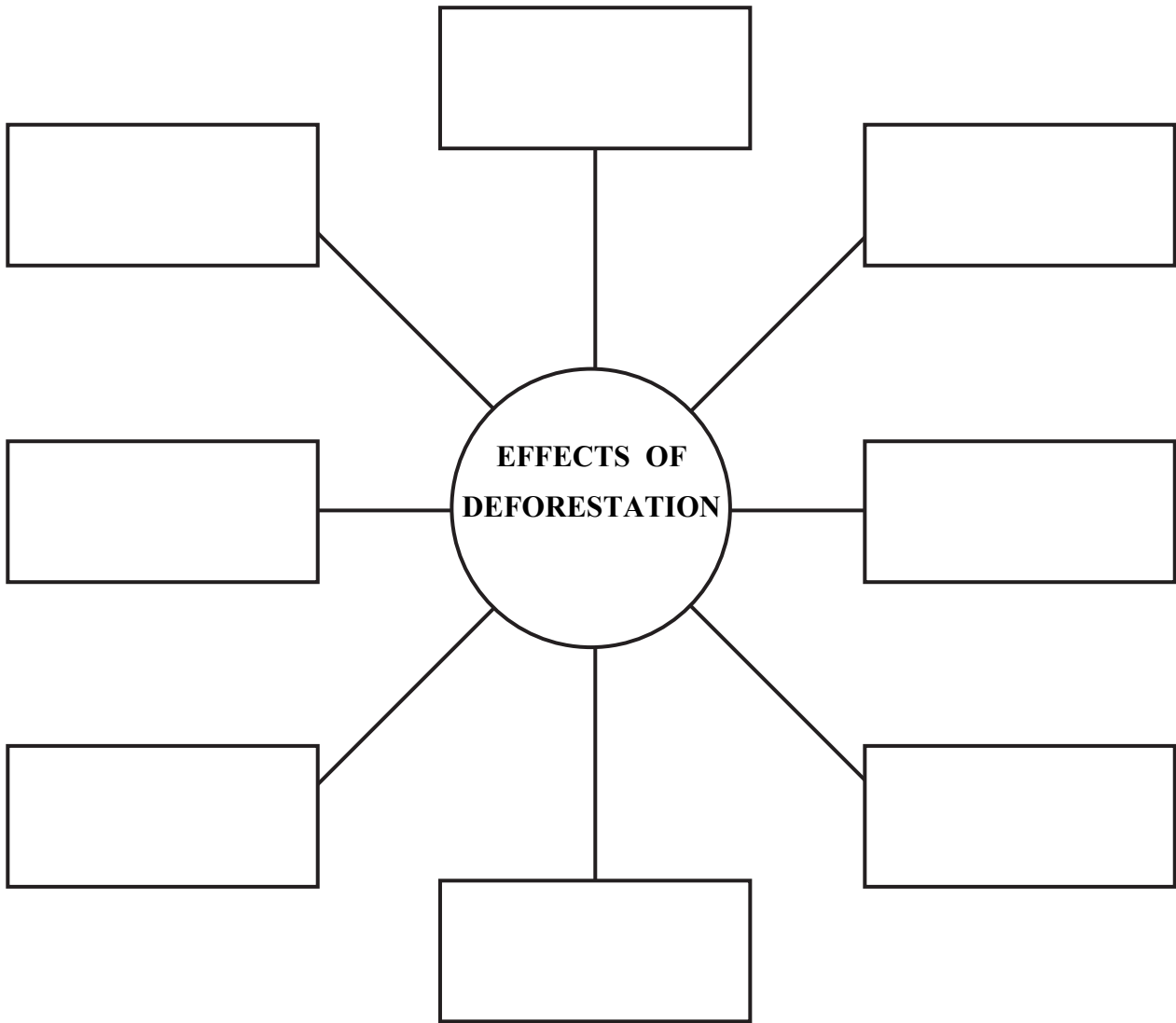
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7. Draw a ray diagram of water cycle.

**VIII. Complete the following chart about the effect of Deforestation.**



## UNIT TEST

1. List the sources of water ?

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2. What is water cycle ?

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3. Name the two processes through which water gets transferred into air ?

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4. What is ground water ?

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5. What is rain water harvesting ?

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### Student's self Assessment

Sl. No.	Learning Indicators	Yes	No
1.	I know the different sources of water.		
2.	I know the process of water cycle.		
3.	I know the importance of water.		

### Teacher's Opinion

Very Good	
Good	
Average	



**Unit -15**

**AIR AROUND US**

**I. Fill in the Blanks with suitable word.**

1. Component of air that can absorbed by root of the plant is \_\_\_\_\_
2. Direction of the air is shown by \_\_\_\_\_ cock.
3. An empty bottle is dipped in to the bucket ful of water we hear sound because of  
\_\_\_\_\_
4. Apart from carbon dioxide; a gas that not support burning candle is \_\_\_\_\_
5. The \_\_\_\_\_ is used to draw water from tube wells and to run flour mills.

**II. State whether the following statements are true or false. If it is false. correct and write.**

1. Air does not have pressure.  
\_\_\_\_\_  
\_\_\_\_\_
2. Air present everywhere. But it is not in soil  
\_\_\_\_\_  
\_\_\_\_\_
3. We can't see air but we can felt its presence.  
\_\_\_\_\_  
\_\_\_\_\_
4. The major part of the air is carbondioxide.  
\_\_\_\_\_  
\_\_\_\_\_

5. Air supports burning of objects.

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**III. Make meaningful sentence. from the following.**

**Ex : requires all air living things.**

**All living Things requires air.**

1. Consume for respiration animals oxygen produce and carbon dioxide.

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2. For you to fly air the moving your kite make it possible.

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3. As we move higher. The air gets in the atmosphere rarer.

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4. Occupies Air space.

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**IV. Give scientific reason.**

1. Traffic police often wear a mask

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2. Mountaineers carry oxygen cylinders with them.

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3. Why earthworms come out of the soil, only during heavy rain ?

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4. Some aquatic plants float on the surface of water.

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5. The tiny air bubbles seen before the water actually boils, why ?

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**V. Answer the following questions.**

1. Name the components of Air ?

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2. How do you find presence of air in the soil ?

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3. What is atmosphere ?

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4. What are the uses of air ?

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5. How the air is purified during respiration ?

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**VI. Activity**

**Explain the activity “Oxygen is necessary for combustion” with neat diagrama.**



**VII. Activity**

**Draw a pie chart showing the Composition of air. Colour it Write the percentage of each components.**

## UNIT TEST

1. What is atmosphere ?

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2. What are the composition of air ?

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3. Which component of air supports burning of substances ?

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4. Write any two properties of air ?

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5. List any two uses of air ?

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### Student's self Assessment

Sl. No.	Learning Indicators	Yes	No
1.	I know the different components of air.		
2.	I know the uses of air.		
3.	I know about the atmosphere		

### Teacher's Opinion

Verygood	
Good	
Average	



**Unit -16**

**GARBAGE IN, GARBAGE OUT**

**I. Four alternatives are given to each questions. choose correct alternative and write it with its alphabet.**

1. Use and throw material of the following is

- (A) Biscuit (B) Pencil  
(C) Plastic (D) Pulses
- 

2. Conversion of plant and animal waste into manure is called

- (A) Composting (B) Vermicomposting  
(C) A & B are correct (D) Only A is correct
- 

3. The aim of “Swachh Bharat mission” is to create an \_\_\_\_\_ free India by 2 oct 2019

- (A) Open defection (B) Plastic  
(C) Waste or Garbage (D) None of the above
- 

4. The colour of the dustbin for collecting biodegradable garbage is

- (A) Red (B) Blue yellow  
(C) Blue (D) None of above
-

5. The food of Red worm is

(A) Pickles

(B) Vinegar

(C) Meat

(D) Vegetable waste

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**II. Fill in the blanks**

1. Second gizzard found in \_\_\_\_\_ animal.

2. The paste made of clay and paper is \_\_\_\_\_

3. The material that causes the big problem in disposal of garbage is \_\_\_\_\_

4. Heating of plastic liberates \_\_\_\_\_ gas.

5. The colour of the bin in which we put non degradable waste is \_\_\_\_\_

**III. Give scientific reasons.**

1. The garbages from house should be collected and separated into two groups.

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2. Now a days single use plastic cover is banned

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3. Garbages should not be burnt on road side.

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4. Plastic coated paper should not be used in redworm farming.

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5. In some cities and towns, provide blue and green bins for collecting garbages.

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**III. Find the odd one out from the followings**

1. Glass, plastic, wood, cement.

2. Cowdung, cooking waste, Agricultural waste, synthetic waste

3. Compost, vermicompost, chemicalfertilizer. Biofertilizer.

4. Pipe, Radio, Refrigerator, Iron chair.





3. What is recycling ?

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4. What are the hazards of usage plastic on man.

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5. Which are the steps to be taken in minimum usage of plastics ?

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### Student's self Assessment

Sl. No.	Learning Indicators	Yes	No
1.	I know about the production of Garbage.		
2.	I know the different steps of waste management.		
3.	I know how the vermi compost can be prepared.		

### Teacher's Opinion

Very Good	
Good	
Average	

