

## BASIC SCIENCE

Class : 5

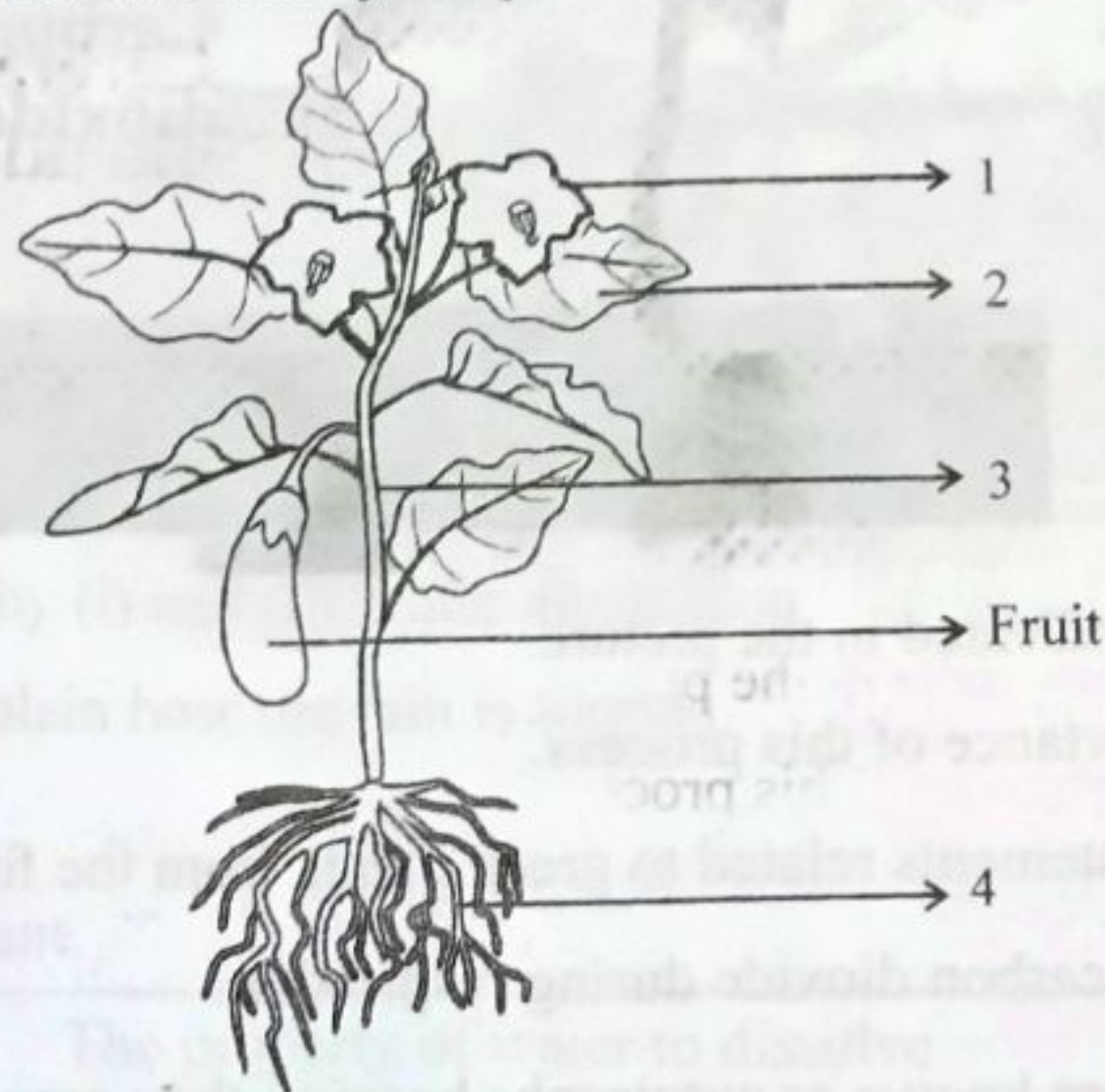
Time : 2 hours

**Instructions**

- ✦ First 15 minutes is cool off time. This time should be used to read and understand the activities.
- ✦ Total 8 activities are given. Answer any 6 activities.

**Activity 1**

A. Observe the picture given below. Identify the parts of plant.



B. Complete the table

Plant	Edible part
Amaranthus	
Bitter gourd	
Carrot	
Plantain	

C. Do we use the same part of potato and tapioca for our food? Justify your answer.

**Activity 2**

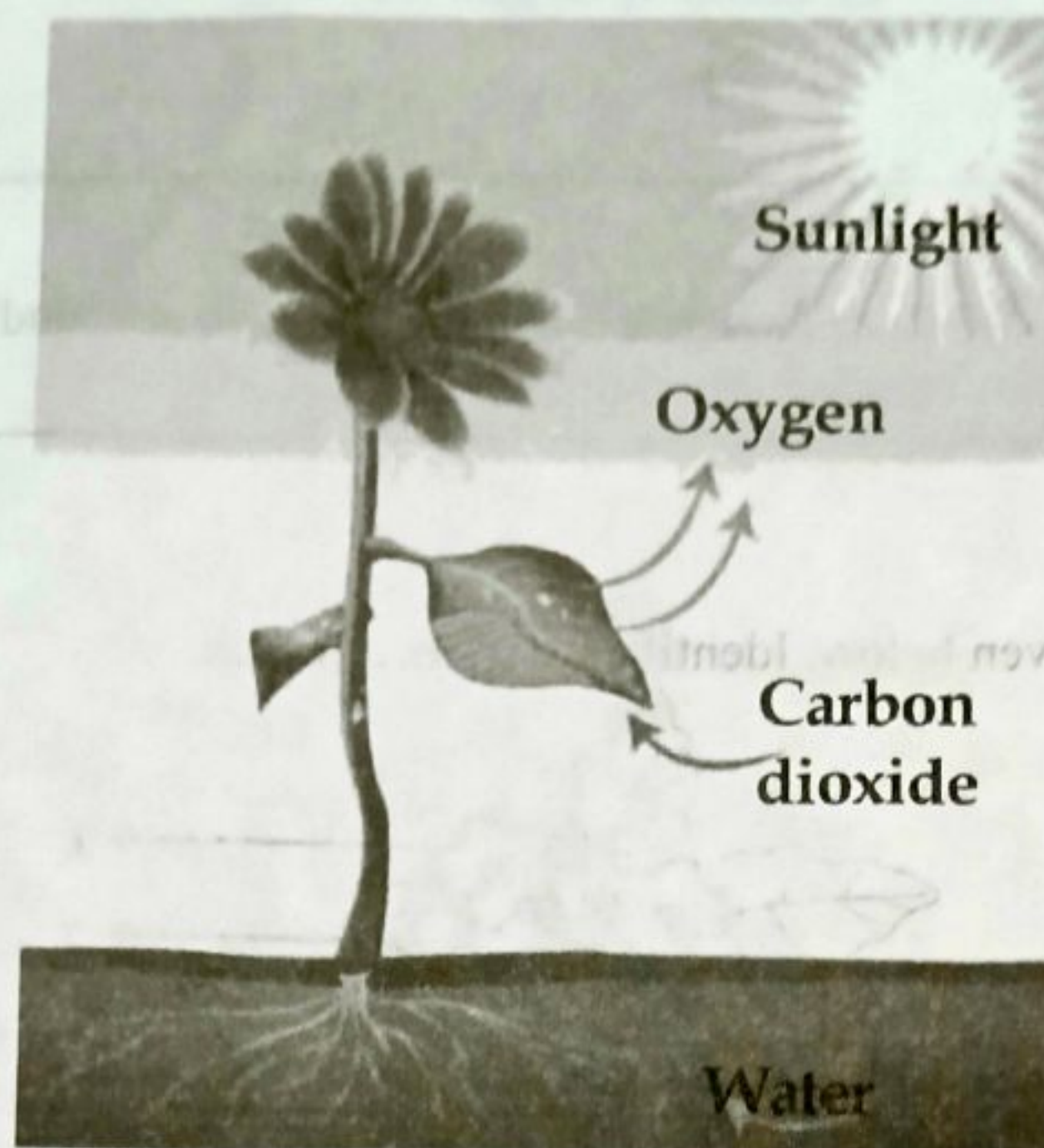
A river near the school was noticed as polluted. School eco-club decided to keep the river, pollution free.

- A. Write any three suggestions to prevent river pollution.
- B. Write any two methods adopted to allow rain water sink into the soil.



### Activity 3

Observe the picture



- A. Name the process indicated in the picture.
- B. Write any two importance of this process.
- C. Write the correct statements related to green plants from the following.
  - 1) Plants absorb carbon dioxide during respiration.
  - 2) Green plants are known as autotrophs because they prepare their own food.
  - 3) Chlorophyll is absent in red amaranthus.
  - 4) Gaseous exchange takes place in plants through small pores in the leaves called stomata.

### Activity 4

Children are engaged in experiment with substances which allow light to pass through.

Ground glass, Wooden sheet, Tin sheet

Clear water, Oil paper, Glass sheet

- A. Classify the above objects based on suitable criteria. Give title for each group.
- B. Suggest any one method to change clear water to opaque.
- C. Write any two situations in daily life where we make use of transparency and opacity of objects.



**Activity 5**

Observe the illustration of rain formation given below.



- A. Write the process indicated by (i) and (ii) in the illustration.
- B. Design an experiment to explain how the rain is formed.

**Activity 6**

Notice the following statement.

The property of water to dissolve substances helps in washing clothes.

- A. List any other two properties of water and write two daily life situations where these properties are used.
- B. Complete the table.

(i) .....	(ii) .....	<b>Solution</b>
Sugar	(iii) .....	Sugar solution
(iv) .....	Water	Soda water
(v) .....	Water	(vi) .....

**Activity 7**

Observe the pictures given below



Picture A (Banyan tree)



Picture B (Screw pine)



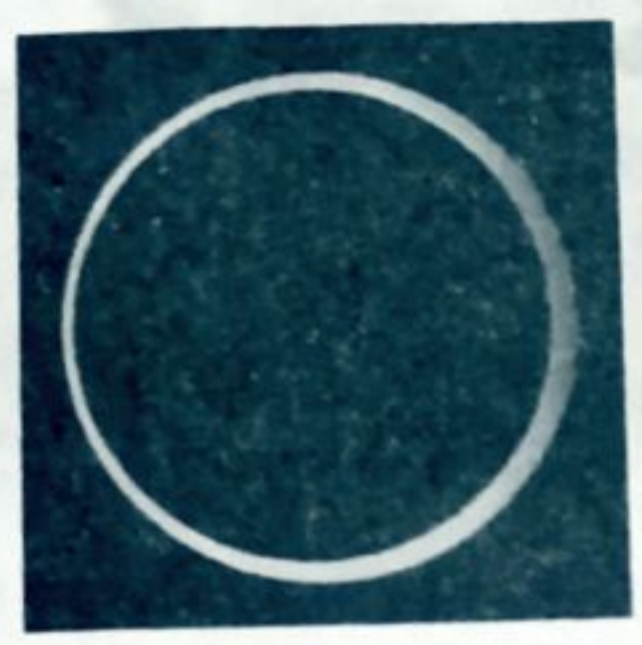
- A. Write the name of the aerial roots present in plants given in the picture.
- B. Write the function of roots in mangroves that grow towards the atmosphere
- C. Identify and write the plants in which food is stored in their roots from the box given below.

Elephant yam, Tapioca, Ginger,  
Sweet potato, Carrot,  
Potato, Beetroot

**Activity 8**

Eclipse is the phenomenon occurred when the shadow of one celestial body falls on another.

- A. Illustrate the position of sun, earth and moon during solar eclipse
- B. Illustration given below shows different types of solar eclipse. Write the name of each.



Picture 1



Picture 2

- C. Identify the correct order of celestial spheres during lunar eclipse

- 1) Sun - Moon - Earth
- 2) Sun - Earth - Moon
- 3) Earth - Sun - Moon
