

Class : 7

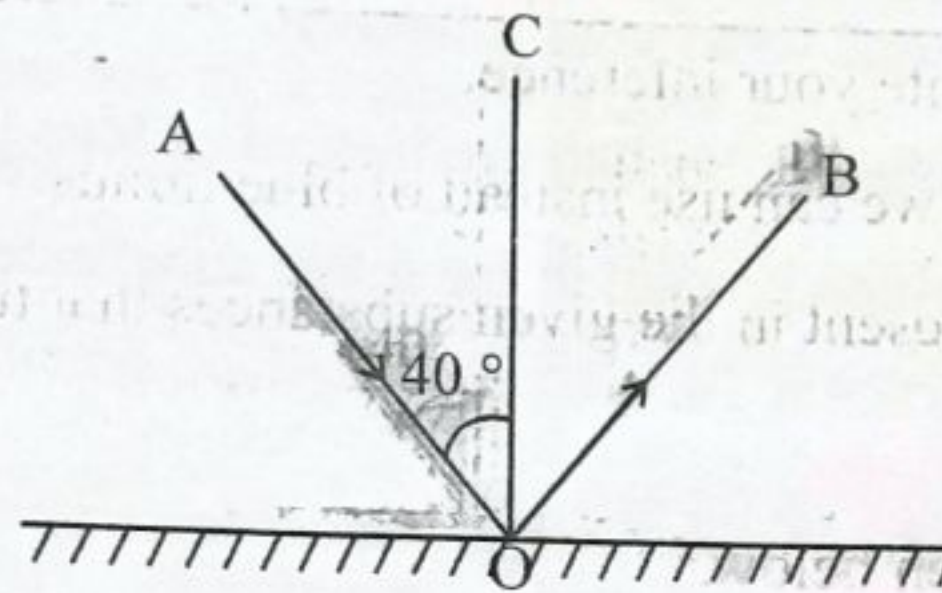
Time : 2 hrs

INSTRUCTIONS

- First 15 minutes is cool off time. This time should be used to read and understand the activities.
- Total 10 activities are given. Answer any 8 activities.

Activity 1

Observe the picture



- Identify and write the incident ray and reflected ray.
- Write the measure of angle of reflection.
- Write any three peculiarities of image formed by a plane mirror

Activity 2

The seeds received by Sonu and Meenu from their school is given below.

Tomato, Lady's finger, Pumpkin, Spinach, Bitter gourd, Chilly, Pea, Brinjal

- They wrote the method of planting these seeds in their science diary. Complete the table.

Seeds that are planted directly
Pea	Spinach
Pumpkin	Brinjal
.....
.....

- Meenu got better yield than Sonu. Write any two factors that might have helped Meenu in getting better yield?

Activity 3

The table below shows the change in the colour of blue litmus paper in different substances.

Substances	Colour change of blue litmus
Lemon juice	Turns red
Sugar solution	No colour change
Salt solution	No colour change
Tamarind water	Turns red
Pure water	No colour change
Butter milk	Turns red
Vinegar	Turns red

- Analyse the table and write your inference.
- Write a natural indicator we can use instead of blue litmus.
- Name the acids which present in the given substances that turned blue litmus red.

Activity 4

Observe the pictures given below.

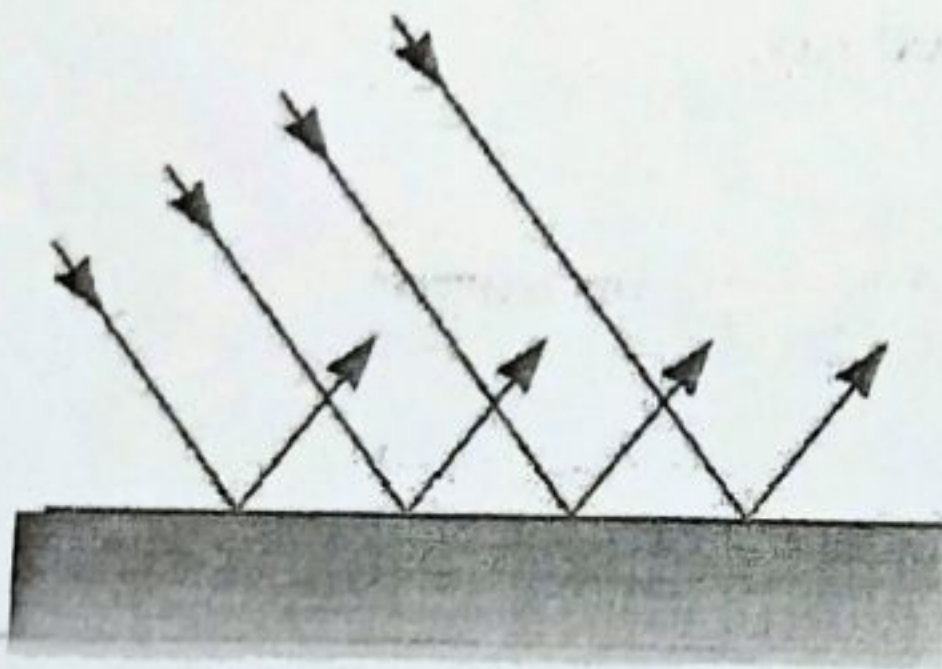


Figure 1

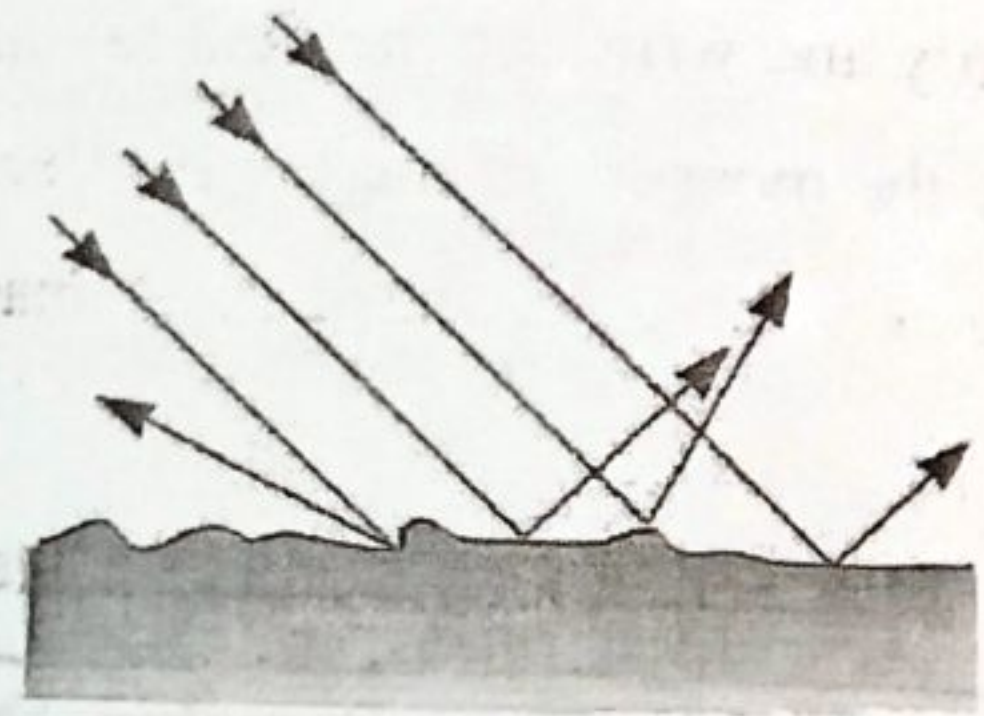


Figure 2

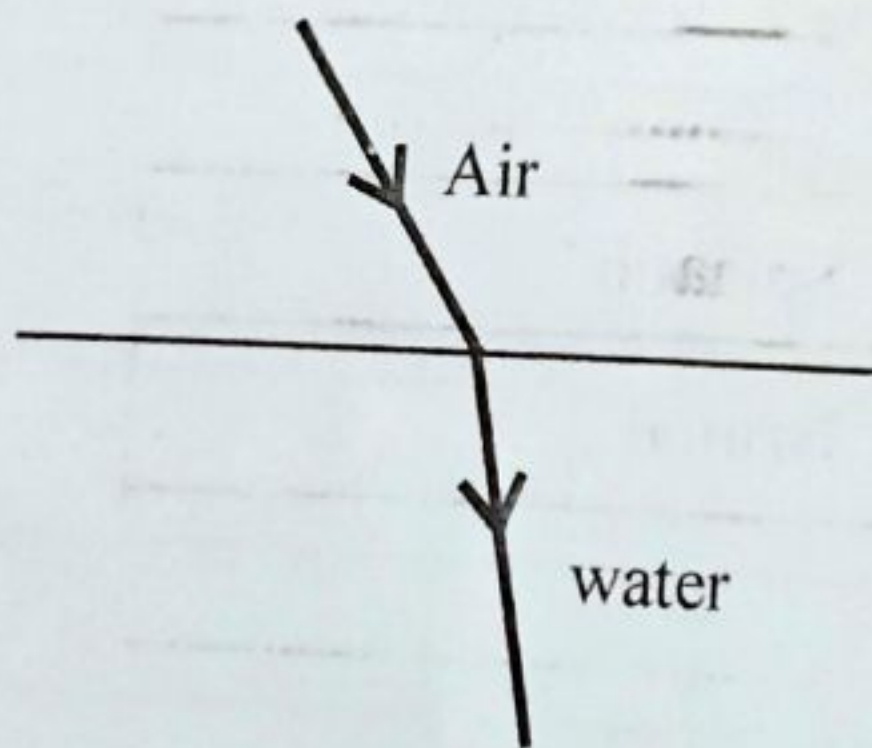


Figure 3

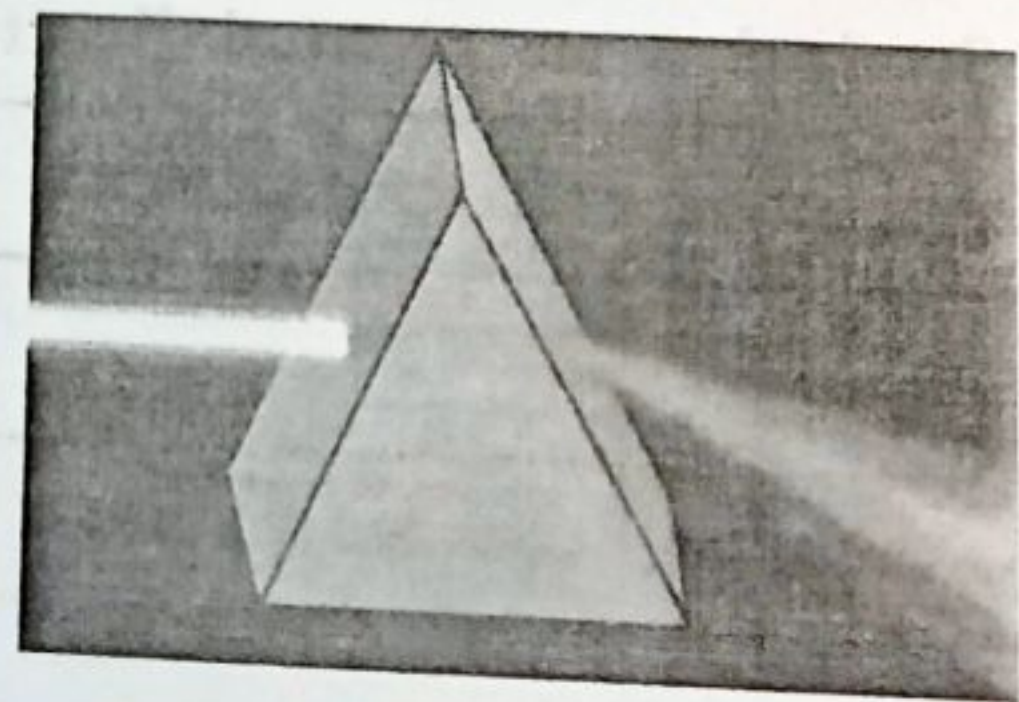


Figure 4

- Identify the names of each phenomenon related to light and write them.
- Identify the phenomenon that causes the formation of rainbow.
- Design an experiment to create the colours of rainbow on a wall.

Activity 5

Listen to the words of earthworm.



- A. How does the over use of chemical pesticides and chemical fertilizers affect the soil, men and other living things?
- B. Write the method of preparation of a biopesticide.
- C. Name any two biofertilizers.

Activity 6

- A. Different methods of producing quality seeds/planting materials are given below. Complete the table.

Method	Features	Plants that can be produced
(i)	Flowers of different colours in one plant	Rose
(ii)	Producing quality seeds through artificial pollination	Coconut
Grafting	(iii)	Mango tree

- B. Write two merits and demerits of plants produced through layering.

Activity 7

Observe the illustration

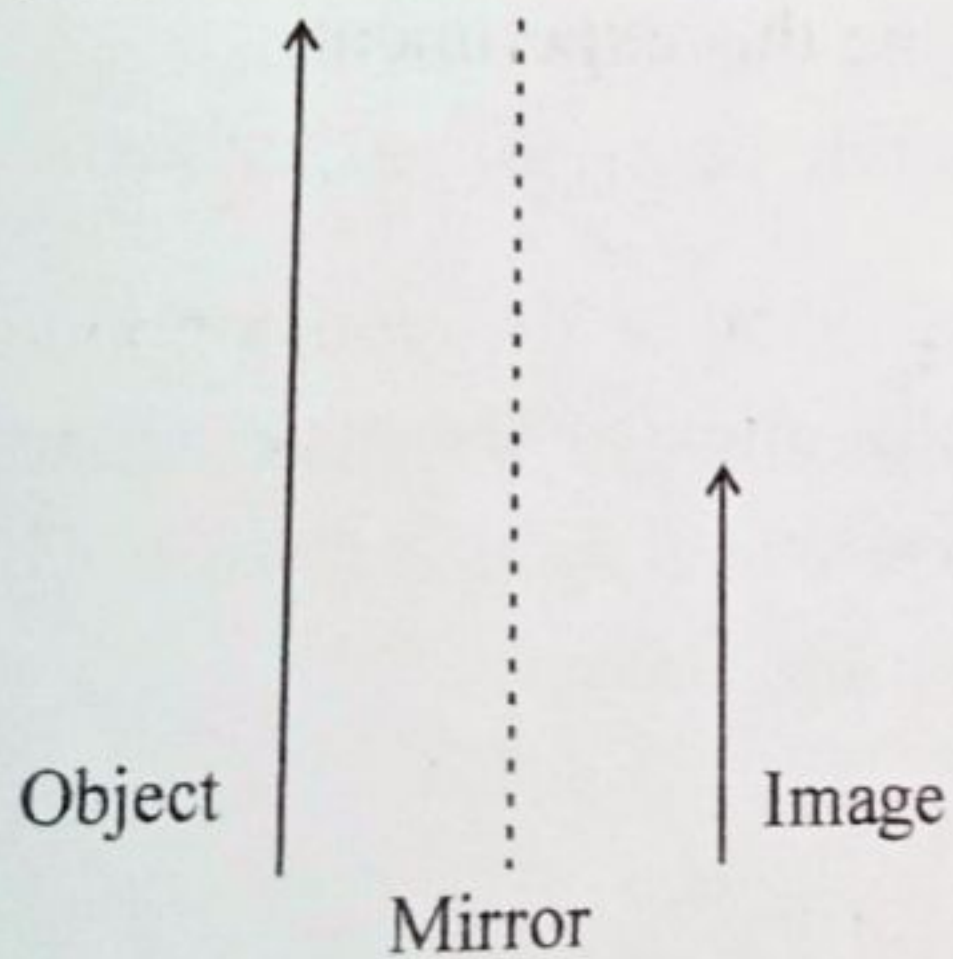


Figure 1

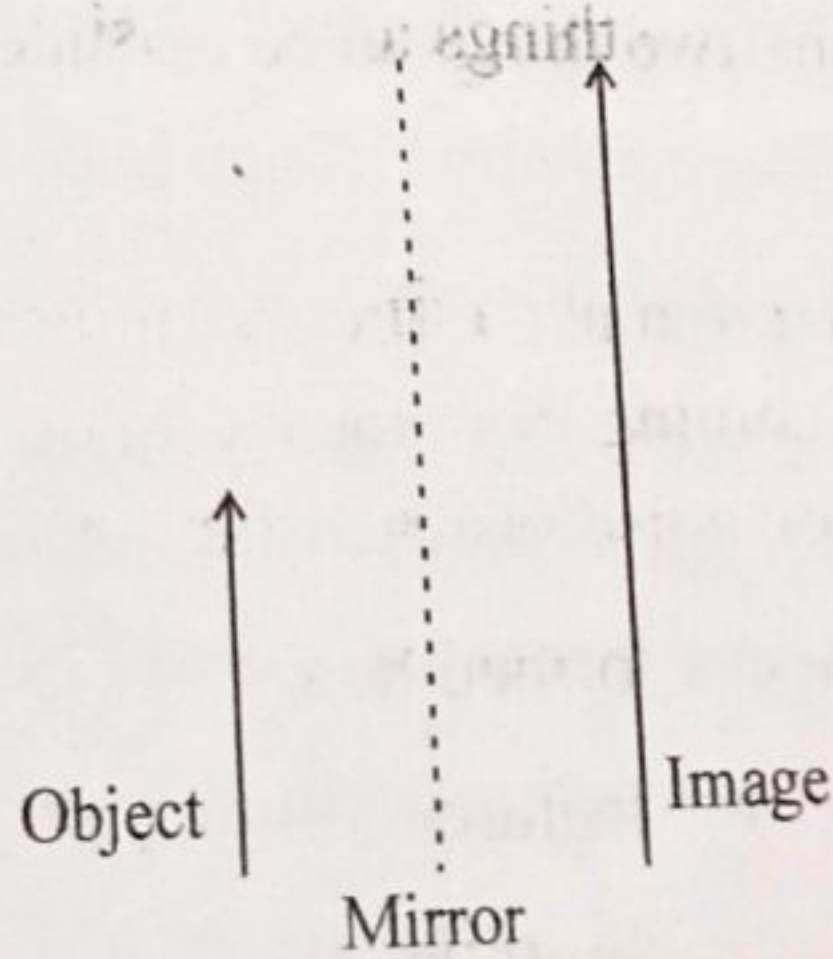


Figure 2

- A. Identify the mirrors and write their names.
- B. Draw the figures of these two mirrors.
- C. Write one use of each mirror.

Activity 8

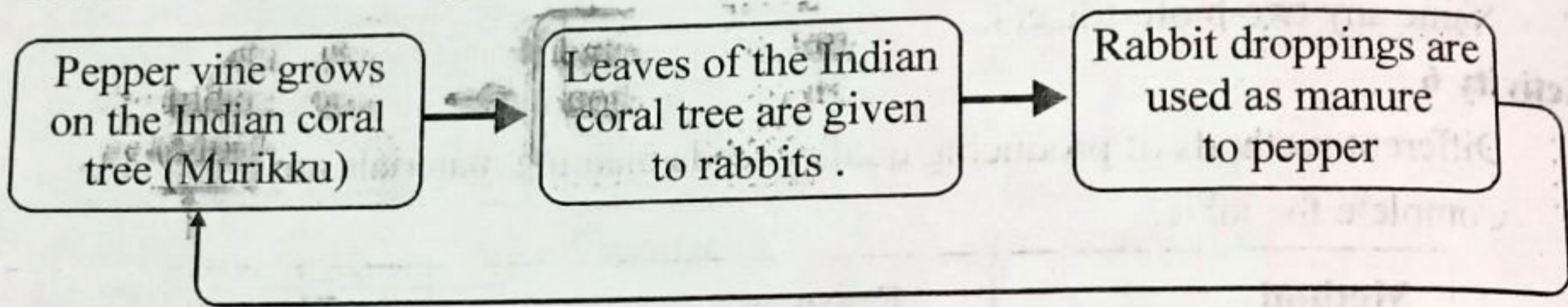
Observe the picture of intercropping.



- A. Write any two merits of this method.

www.educationobserver.com

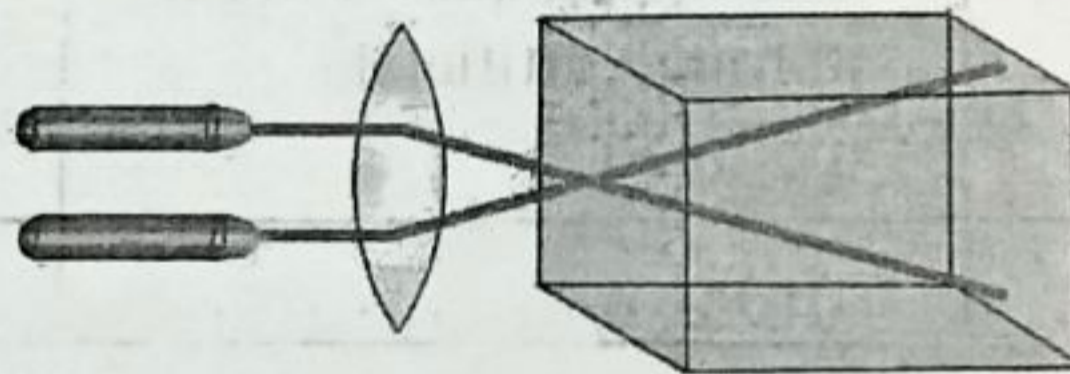
Observe the illustration given below.



- B. Name this method of farming and write any two advantages of this method.

Activity 9

The illustration of an experiment related to light is given below.



- A. Name the lens used in this experiment.
- B. Write the inference of the experiment.
- C. Write any two things to be considered while doing this experiment.

Activity 10

Balu tried to make a fire extinguisher with vinegar and magnesium ribbon. He directed the gas coming from the extinguisher towards a lighted candle. The candle flame burnt with a low noise instead of extinguishing the flame.

- A. Name the gas formed here?
- B. Write any two features of this gas?
- C. What change should be done in this experiment to work the fire extinguisher properly?

www.educationobserver.com