

Basic Science

Class 5

Time : 2 hours

Instructions

1. 15 minutes cool off time is given for reading the questions.
2. Eight activities are given.
3. Answer any six activities.

Activity 1

The given diagram shows the formation of new plants in Bryophyllum and Potato.



Bryophyllum



Potato.

- A) From which part does new plants form in Bryophyllum and Potato?
- B) Find out the plant that produces saplings from its stem and seeds.
 1. Mango tree 2. Jasmine 3. Drumstick 4. Rose plant
- C) Find the statements related to vegetative propagation from those given below.
 1. New plants are formed from seeds.
 2. New plants are formed from root, leaf and stem.
 3. Vegetative propagation takes place only in seed producing plants.
 4. New plants have the same qualities of its mother plant.

Activity 2

Examine the given pictures.



Filament bulb



LED Bulb

- A) The pictures of two bulbs, providing almost the same amount of light, are given above. If both of them are used continuously for 5 hours, which among them consumes more electricity. Why?
- B) Which among them can be used in an incubator?
- C) Suggest any two ways to control the consumption of electricity in your home.

Activity 3

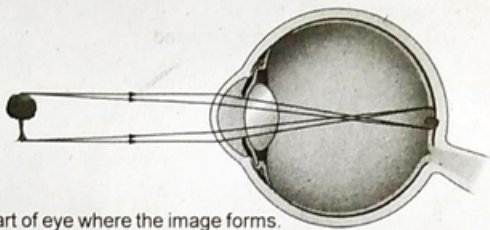
Examine the pictures.

<p>A)</p>	<p>i)</p> <p>Wheelbarrow</p>
<p>B)</p>	<p>ii)</p> <p>stapler</p>
<p>C)</p>	<p>iii)</p> <p>scissors</p>

- A) Based on the position of the fulcrum and the effort, match the diagrammatic representation with simple machine.
- B) Find the odd one. Give reason.
 a) fulcrum b) effort c) weight d) resistance
- C) We use a pulley to draw water from the well. How does a pulley work as a simple machine?

Activity 4

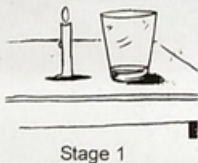
Examine the picture.



- Name the part of eye where the image forms.
- Though the image formed in our eyes is in an inverted position, we see the object in a real erect position. Why?
- Write any two suggestions related to the protection of eyes.

Activities 5

Two stages of an experiment are given below.



Stage 1



Stage 2

- Write the inference you get from this experiment.
- For the production of energy in our body not only food but also respiration is necessary. Do you agree with this statement? Why?

Examine the figure.

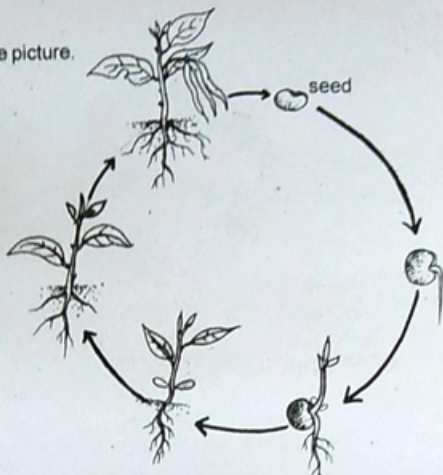


The firewood stove smokes well.

- Write any two suggestions to improve the fuel efficiency of a fire wood stove.

Activity 6

Observe the picture.



- A) Which portion comes out first in a sprouting seed?
 B) Complete the table on the germination of seed.

Parts of seed	During the germination of seed
Radicle	i)
ii)	Gives food for the sprouting seed.
iii)	iv)

Activity 7

Examine the pictures.



Drumstick Seed



Calotropis seed

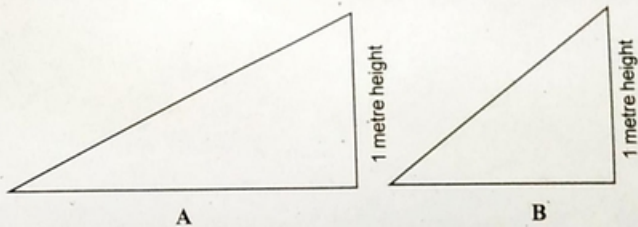
A)

Adaptations for seed dispersal	
Drumstick Seed	Calotropis' seed
i)	iii)
ii)	iv)

- B) Write the mode of seed dispersal in these plants.
 C) Write any two other modes of seed dispersal.

Activity 8

Examine the given diagrammatic representation of two ramps.



- A) Which among these ramps is suitable for physically challenged children? Give reason.

Observe the pictures of two types of wedges given below.



- B) Write any one use of each wedge.