

**Let's pave the way for learning and
Move Forward**

**Standard - 4
Environmental Science**



**State Council of Educational Research and Training
(SCERT), Kerala
2022**

Dear Students,

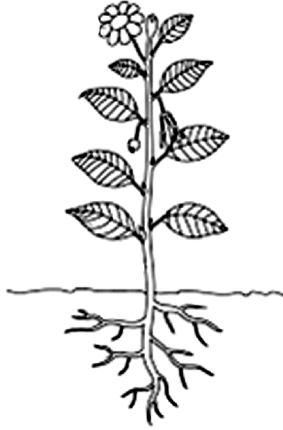
The evaluation of the answer scripts of the First Terminal Examination 2022 and the classroom experiences shared by the teachers concerned, have brought to light the fact that our children have suffered some serious learning gap due to the non-availability of proper learning experiences as a result of the unprecedented situation created by the Covid Pandemic from 2019 to 2022. An activity book has been designed to assist children internalize the concepts which they ought to have mastered in the previous classes and with the intention to facilitate further learning. Necessary explanations and activities are included in the booklet to help children bridge the gap. It is hoped that this package will facilitate the learners for self-study or for studying with the help of their teachers and I wish them success in their endeavors to move forward with confidence.

Director

SCERT

Class- 4 EVS

1. Label the different parts of a plant



- Root
- flower
- Leaf
- stem
- fruit

Different parts of plant are used as food. Classify the following plants according to these parts and write in the given table

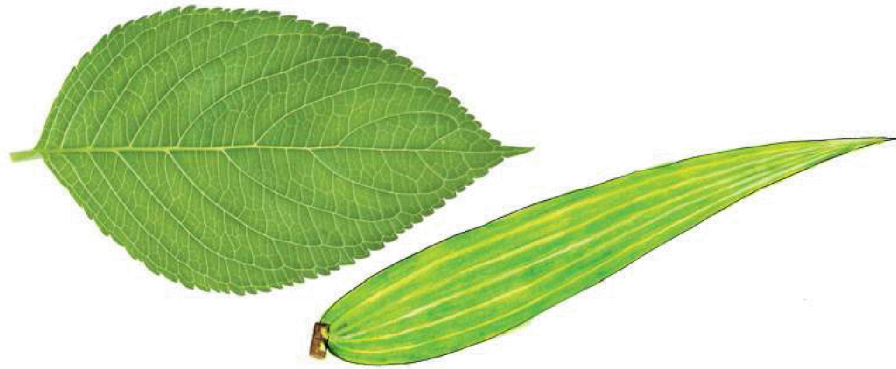
- | | | | |
|------------|---------------|------------|---------|
| onion | pappaya | drumsticks | pumpkin |
| amaranthus | thakara | colocasia | potato |
| tapioca | ladies finger | coconut | ginger |

Flower	Fruit	Leaf	Stem	Tuber

Write the parts of the above plants which are used to produce saplings.

Seed	Tuber	Stem

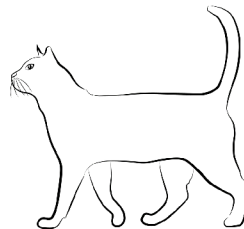
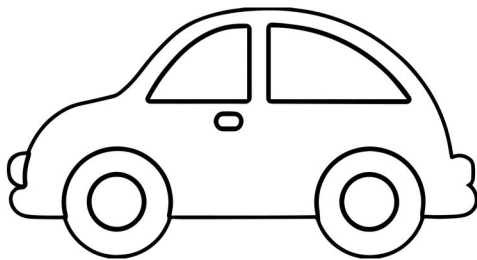
2



The network - like venation in leaves is called reticulate venation.

The parallel arrangement of veins in leaves is called parallel venation.

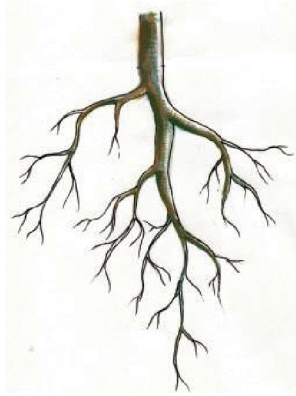
Draw different shapes of your choice like vehicles, animals and birds on chart paper and decorate it pasting leaves on it. Only one type of leaf (reticulate / parallel) should be used in one picture.



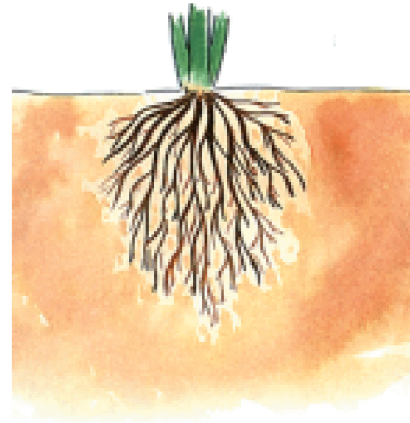
classify the leaves you have used according to their venation.

Reticulate venation	Parallel venation

3.



The tap root system consists of larger tap root and the smaller branches growing from it.

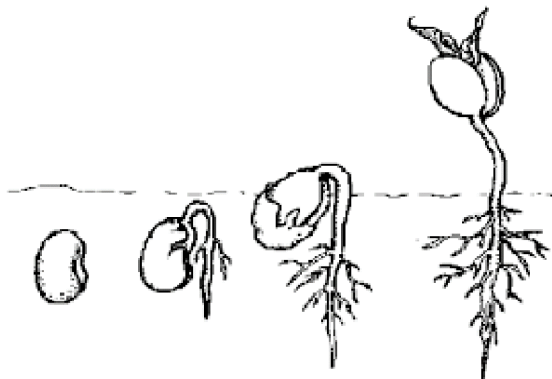


The fibrous root system includes a cluster of similar roots growing from base of the stem

Make a tree on a chart paper by pasting the roots of plants having fibrous roots. Display this in your classroom.



4. Observe the different stages of seed germination.



Observe the number of cotyledons in the above picture

Is it a monocot plant or dicot plant ?

Radicle is the first part that comes out from seed at the time of germination.

This part later transforms into which part ? Encircle this part in the above picture

5 Let us germinate seed.

Take some pea seeds. Draw the shape of one seed in your notebook by holding it on the paper and marking around it using a pencil.

Place these seeds in a coconut shell and add water to it. Observe the seeds after one day. Compare the size of seed we marked in the notebook. Is there any change in size?

- What change occurs in the size of the seeds ?
 Size increased Size decreased
- What happens to the outer covering of the pea seed ?

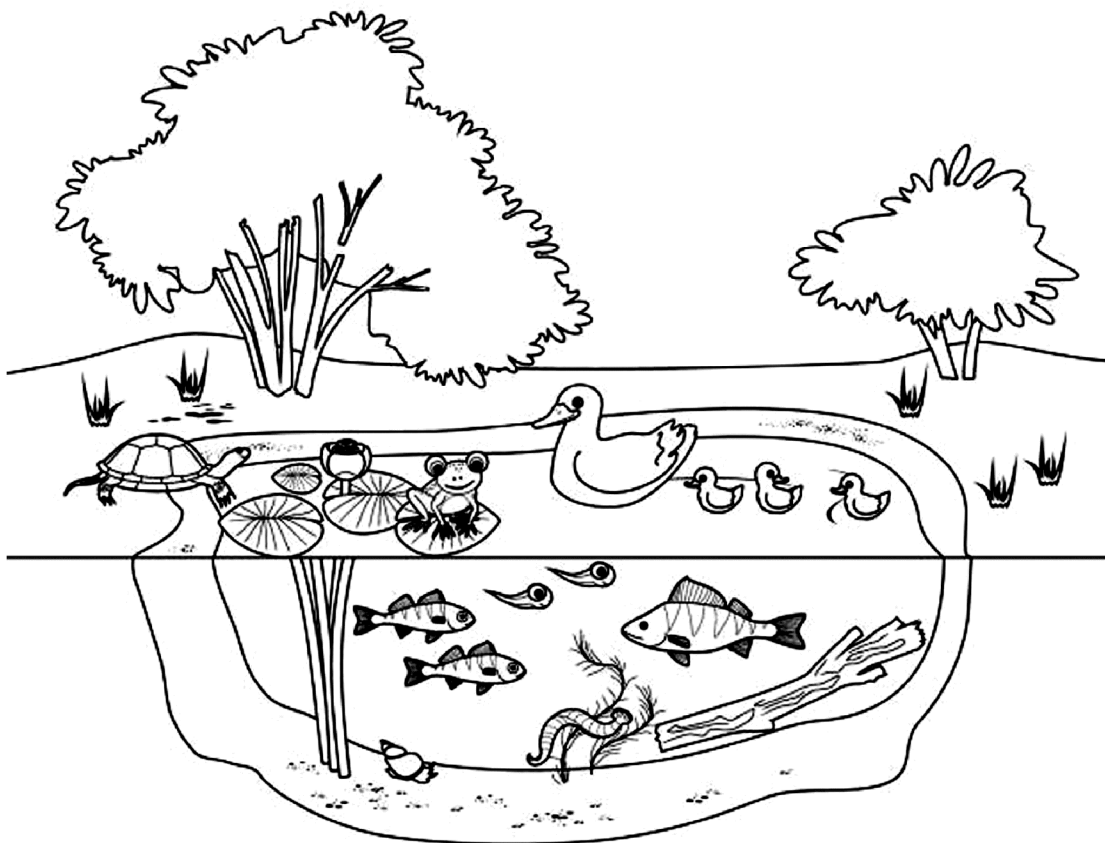
- Which part of the seed grows upwards ?

- What happened to the cotyledons of the pea seed after a few days? Why would this be?

- What was the difference in the color of the leaves when the cotyledons dried up? Why would that be?

Tell the story of a pea seed to your mother after your observations.

6. Put tick marks on the living organisms in the picture.



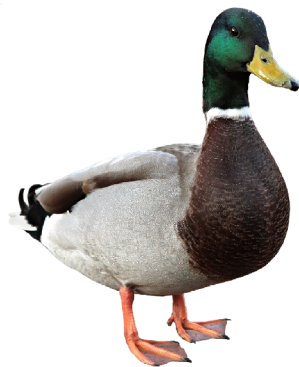
Tabulate the living things and non-living things factors into the following table

Living things	Non-living things

Write the mutual relation between living and non living factors in the following table.

Living / Non-living	Factors inter dependence

7. How do the peculiarities of duck help it to live in its surrounding ?



Observe the domestic birds or animals in your home and write the peculiarities of its body.

8. Have you seen the newspaper cutting related to environmental destruction? Collect and sort newspaper clippings like these to make a wall paper. What are the conditions of water, air and soil pollution?

Water	Air	Soil

What can we do to avoid such situations?

9.



Which is your district on the map?

Find the district and colour the district.

Write the name of your neighboring districts.

Which districts have more than two neighbouring districts?