



Name - _____

CLASS / SEC – V / _____

Date – 01.04.2020

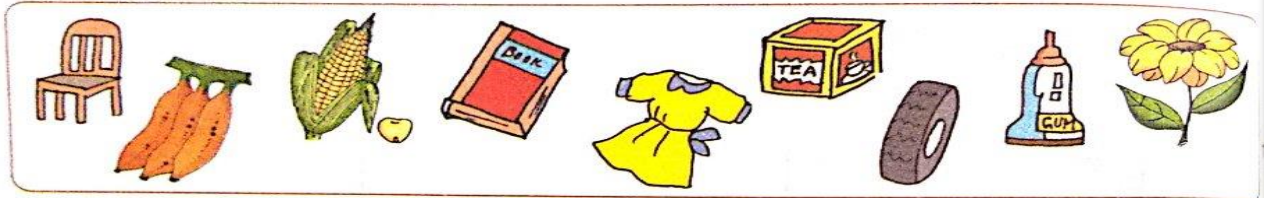
Introduction

Life on Earth cannot exist without plants. Do you know why?

Activity -1 & 2

THE ROLE OF PLANTS IN OUR LIVES

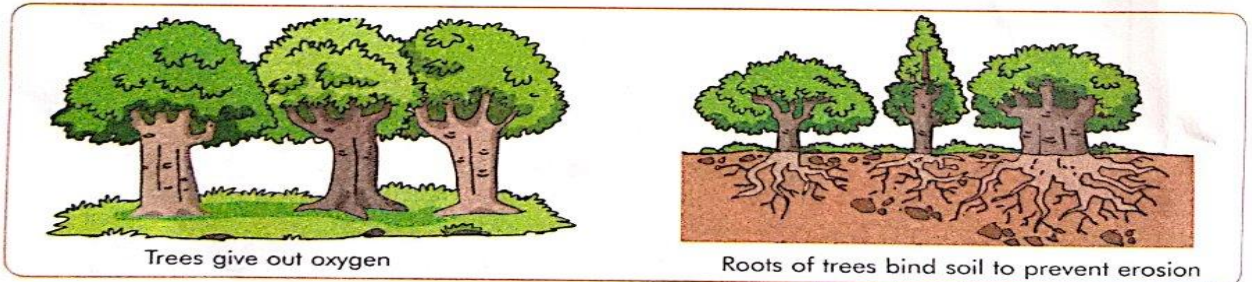
Try to imagine what would happen if plants of all kinds were to disappear from the face of the Earth! If you think over it a little, you will realise the importance of plants in our daily lives. **Plants produce a number of things useful for us.** Note down the things we get from plants. The pictures given below will help you.



We get the following from plants:

- | | | |
|-----------|-----------|-----------|
| (a) | (b) | (c) |
| (d) | (e) | (f) |
| (g) | (h) | (i) |

Plants Help in Maintaining the Environment



What else do plants do for us? Note down:

- | |
|-----------|
| (a) |
| (b) |
| (c) |

Since plants are so important in our daily life, it is necessary for us to study about them so that we may be able to take proper care of our farms and gardens.

Plants give us food. Cereals, pulses, vegetables, fruits come from plants. Sugar, spices and oil too are obtained from plants. They supply us with life giving Oxygen. They also provide us with wood, fibre, rubber, gum, tea and coffee. Plants are helpful in reducing soil erosion too.

We need to grow more and more plants since we depend upon them for all basic needs. More plants would mean a continuous supply of all our basic needs necessary for our survival.

Highlights/Summary of the Chapter

(To be copied by students in their notebooks)

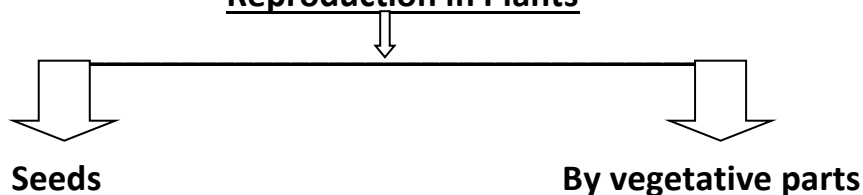
We see many kinds of plants around us. What makes plants increase in number?

Let's understand.....

REPRODUCTION

- Characteristic feature of all living things.
- It is a process by which living things make more of their own kind.
- It is important for all life to go on and also that species do not die out.

Reproduction in Plants



Example: 1) Tomato

2) Lady finger

3) Orange

ROOT- Carrot, Raddish

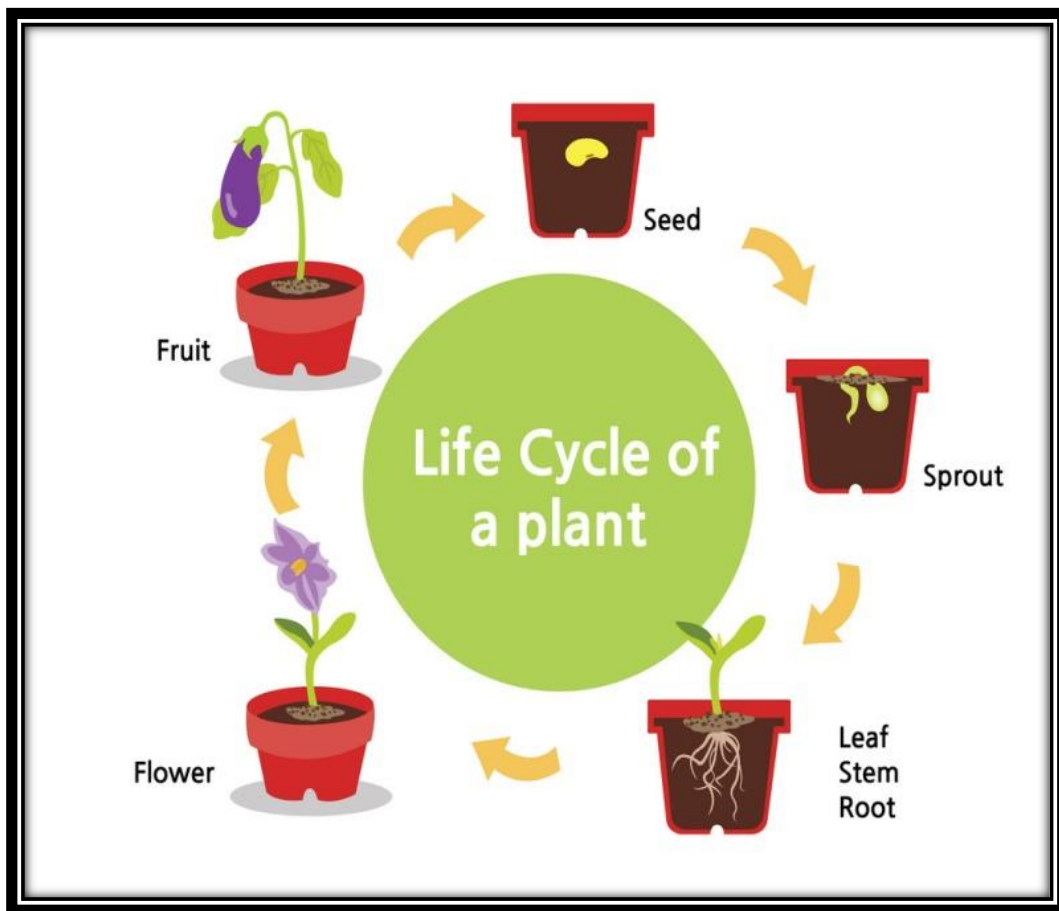
STEM- Sugarcane, Rose

LEAF – Bryophyllum, Begonia



DID YOU KNOW??

Flower---changes to → Fruit-----has → Seeds----- give rise to → New plants



Flower is called a **reproductive part** of a plant. Want to know why? Here's an interesting activity for you.

Activity -3

CREATE YOUR OWN CRAFT



Flower Life Cycle Craftivity

freebie

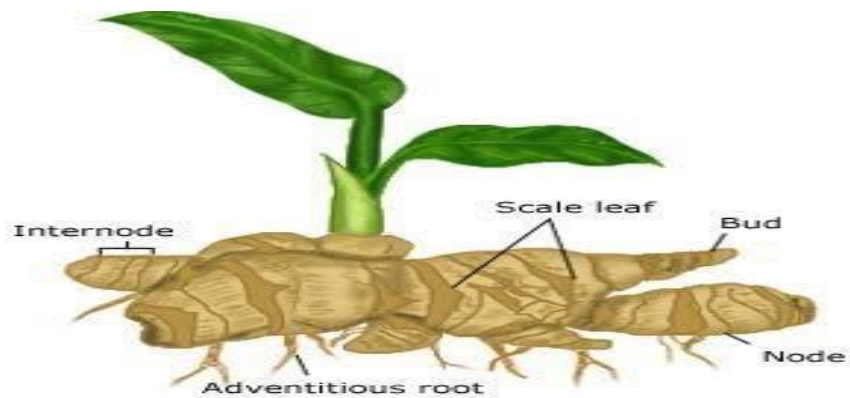
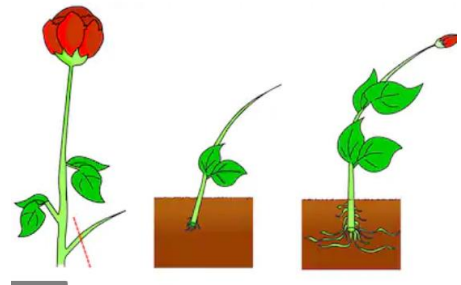
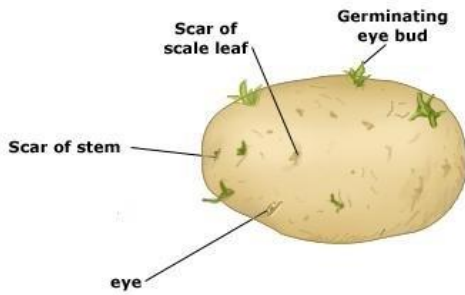


****YOU MAY USE PAPER CUTTINGS TO DRAW AND MAKE THIS COLLAGE.**

All other plant parts like **Root, Stem, Leaf, Branches, and Buds** are called the **vegetative plant parts**.

Some plants multiply with the help of their vegetative parts; roots stem or leaves **without producing seeds**. This is termed as **Vegetative Reproduction** in plants.

- **Growing plants from stem**- New plants grow from pieces of stem (Stem cuttings).
Examples- **Potato, Sugarcane, Rose and Ginger.**



- **Growing plants from roots**- Plants like **Sweetpotatoes, Carrot, Raddish or Turnip** grow new plants from roots. If you cut the top portion of a carrot and plant it in the ground, a new plant will grow from it.

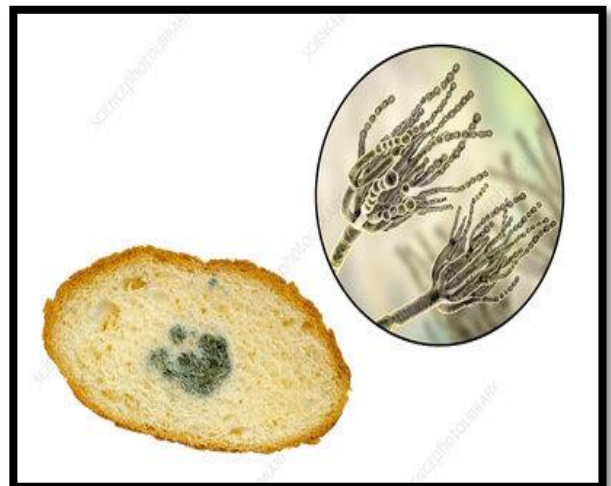


- **Growing plants from leaves-** Bryophyllum and Begonia plants produce new plants from the margins of its leaves. The tiny plantlets fall off on the ground and grow as an independent plant



Bingo's Knowledge Bank-

Plants like **Ferns and Fungi** do not grow from seeds. They grow from tiny structures called **SPORES!!!**



Enhancing your Life Skills

Activity-4: Producing New Plants from Old

What you need to do: - Try growing **any 2** of the following plants using the vegetative plant parts. Ex- Rose, Ginger, Potato, Sugarcane, Mint, Jasmine, Money plant, Alovera, Bryophyllum, Begonia, Bougainvillea, Arum, Onions, Garlic, Carrot, Raddish etc.

** If possible, you may design your own planter!!

DID YOU KNOW...

Grasses are famous for their ability to reproduce by means other than their seeds.

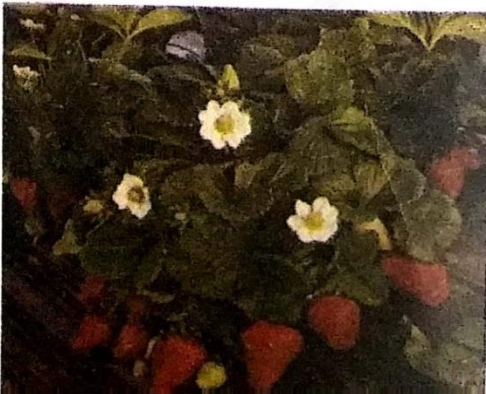


This grass plant sends up new shoots along its over-ground stem which is called a "runner"

This grass plant sends up shoots from its underground stem.



Strawberry plants, like many grasses, produce new plants at intervals by developing runners over the ground.

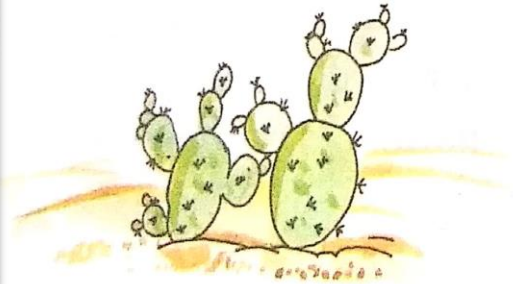


Producing new plants from old!

If you have "Green Fingers" you can try some of this!



Break off an "ear" of the prickly opuntia and plant it in some sandy soil. It will get roots and grow. Do not give it too much water.



Tiger lilies have dark little "bulbils" at the base of their leaves. Remove the bulbils and plant them like seeds.



Reference:-

- 1) <https://youtu.be/KdZ2bIF2CuM>
- 2) <https://youtu.be/TdiibRXXJ6g>

Recap Zone

- 1) Plants provide us with food, oxygen, building materials, fibres for clothing, medicines and many other things.
- 2) Reproduction is necessary because it ensures continuity of life and species on the Earth.
- 3) Plants reproduce in many ways.
- 4) Many plants reproduce by means of seeds, some plants reproduce with the help of root, stem and leaves.

Put on your thinking caps

Ques1. Fill in the blanks:-

- 1) The process by which living things make more of their own kind is called _____ .
- 2) _____, _____ and _____ are called the vegetative parts of a plant.
- 3) Ferns and Fungi reproduce by tiny structures called _____ .

Ques2. Give reasons for the following:- (to be done in the notebook)

- 1) All living things must reproduce because _____
- 2) Flowers are very important for plants because _____

Ques3. Answer the following in brief: - (to be done in the notebook)

- 1) Life on Earth cannot exist without plants. Why?
- 2) Differentiate between reproduction in an apple and reproduction in sugarcane.

Ques4. Name the plant part used to grow the following new plants: - (to be done in the notebook)

- a) Rose
- b) Bryophyllum
- c) Sweet potato
- d) Carrot

Ques5. Exploring beyond.....

Find the plant part used to grow the following-

- | | |
|--------------------|-----------------------|
| 1) Grass----- | 4) Bougainvillea----- |
| 2) Strawberry----- | 5) Turnip----- |
| 3) Jasmine----- | 6) Onion----- |
