

Class-v
Chapter-1
Growing Plants

→ INTRODUCTION:-

Plants are the most important living organisms on the earth. We use plants in many ways. They give life to all. Plants are eaten or destroyed by us everyday, still there is plenty of plants because plants continue to grow.

→ NEW PLANTS FROM SEEDS:-

1. Most plants grow from the seeds.

Ex-If you sow a seed in the soil, the seeds germinate in few days.

2. After few days tiny plants appear and gradually develop into big plants.

★ Parts of a seed

1. The outer hard covering of the seed is called seed coat.
2. The seed coat protects the internal delicate parts of the tiny plant called embryo.

Plants on the basis of cotyledons

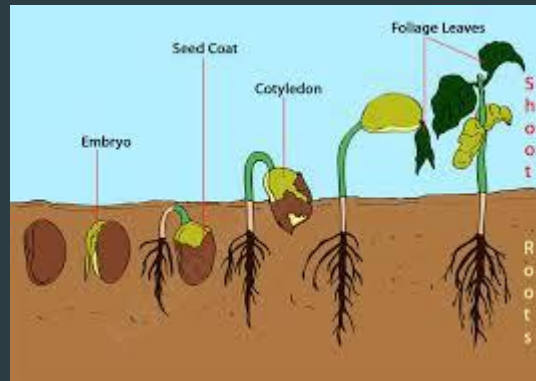


Monocot Plants
Mono means : one
Plants that have one cotyledon.
Example - maize, wheat, rice

Dicot Plants
Di means: two
Plants that have two cotyledons.
Example - gram, pea, beans

➔ Germination of Seeds

- The change of a seed into seedling is called germination.
- The essential conditions required for seeds to germinate are water, air and sunlight.



★ DISPERSAL OF SEEDS

The process of scattering seeds away from the mother plant is called dispersal. Dispersal is necessary for the better growth of plant.

★ PROCESS OF SEEDS DISPERSAL

1. By wind :- cotton, madar
2. By water :- coconut, lotus
3. By explosion:- pea, beans
4. By men, animals and birds:- by animals or birds waste



WAYS OF GROWING PLANTS

Some plants can grow from their body parts. Growing plants from their body parts such as root, stem, or leaf is called vegetative reproduction.

1. From roots- Can grow into new plants from their roots. Ex- carrot, sweet potato etc.

2. From stem- Can be grown from stem cuttings. Ex- rose, sugarcane etc.

3. From leaves- Bryophyllum grow new plants on its edges.

➔ GROWTH AND DEVELOPMENT IN PLANTS

★ Soil- Different plants require different kinds of soil.

1. Cotton plant- black soil
2. Wheat, jowar, bajra- sandy soil

★ Climate:-

1. Aquatic plants- grow in water
2. Coconut trees- moist climate

★ Seasons:-

1. Rabi crops- Crops grow in winter season.
2. Kharif crops- Crops grow in summer season.

➔ TIPS FOR A BETTER CROP YIELD

- ★ Add manure and fertilizers.
- ★ Irrigate the plants properly.
- ★ Prepare the land before sowing.
- ★ Use insecticides and pesticides.
- ★ Use healthy and better quality of seeds.