

WELCOME TO THE ONLINE CLASS

SESSION NO.: 2

CLASS: 5

SUBJECT: SCIENCE

CHAPTER NUMBER: 1

CHAPTER NAME: PLANTS: INCREASING THE NUMBER

SUB TOPIC: INTRODUCTION, NEW PLANTS FROM SEEDS

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

To enable the learner to identify different parts of a seed.

IMPORTANCE OF PLANTS

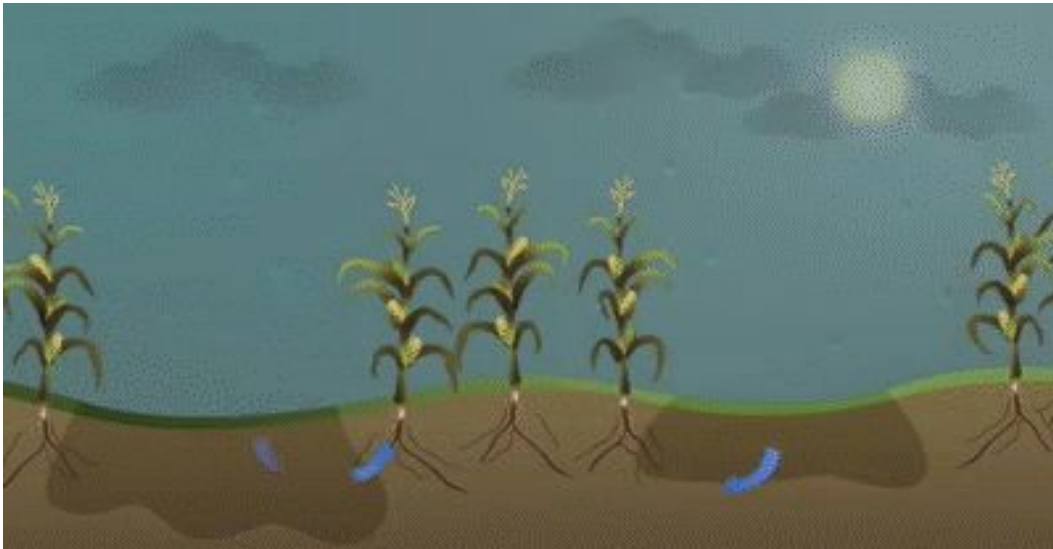
- **Plants provide us different types of foods like cereals, pulses, vegetables, fruits etc.**
- **Plants provides us with wood fibre, rubber, gum, tea and coffee.**
- **Plants supply us with life giving oxygen.**
- **Many plants such as tulsi, aloe vera, etc. are used to prepare medicines.**

IMPORTANCE OF PLANTS



IMPORTANCE OF PLANTS

- Plants absorb water through their roots and release water vapour from their leaves by a process called transpiration. Thus, they regulate the water cycle.
- Plants help reduce soil erosion. Hence, we need to grow more and more plants, since we depend on them. More plants would mean a continuous supply of plant products to meet our needs



NEW PLANT FROM SEED



NEW PLANT FROM SEED

- A plant produces many seeds because most new plants grow from seeds.
- Seeds are usually found inside fruits.
- They are of different shapes and size and colour.



NEW PLANT FROM SEED

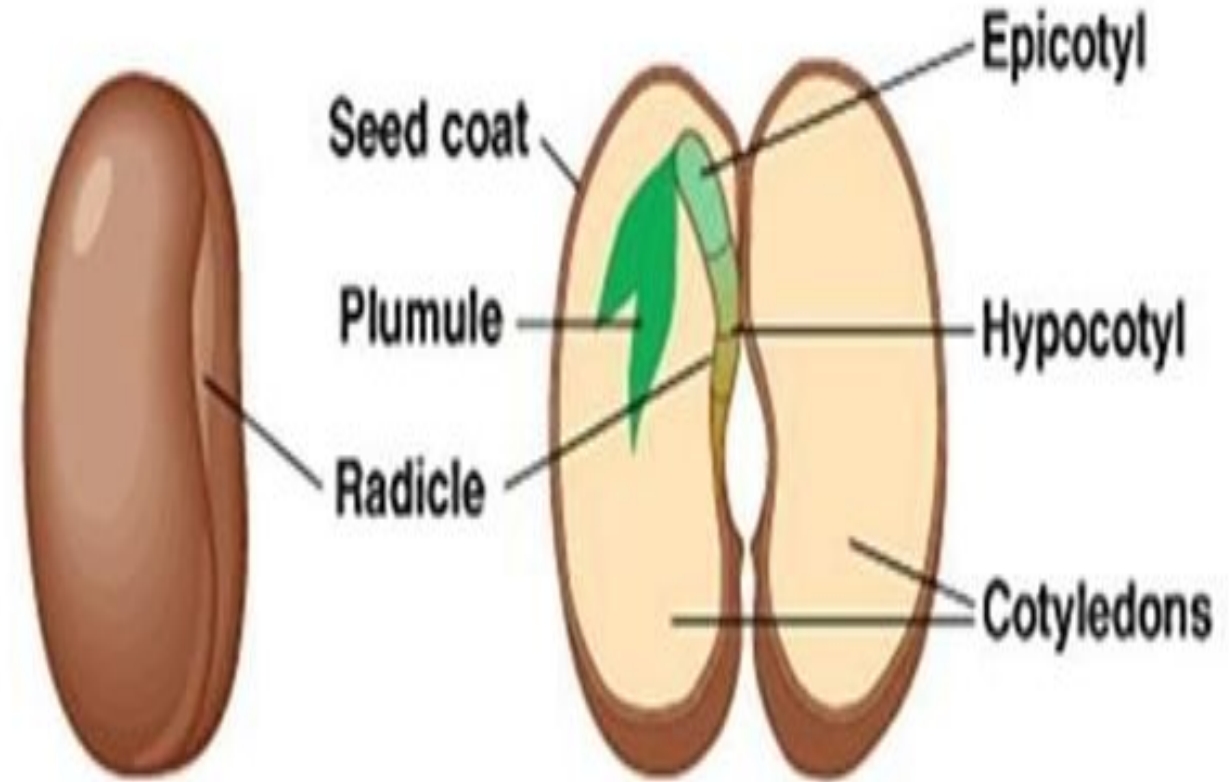
- New plants grow when seeds fall on the soil and germinate.
- All seeds do not grow into new plants because of the following reasons:
 - Some seeds are not fully grown when they separate from their parent plant.
 - Some seeds are destroyed by strong winds or heavy rain or are eaten by insects or birds.
 - Some do not get the right soil or enough air and water.



STRUCTURE OF A SEED

A seed has following parts:

- Seed coat
- Cotyledons
- Embryo
- Radicle (baby root)
- Plumule (baby shoot)

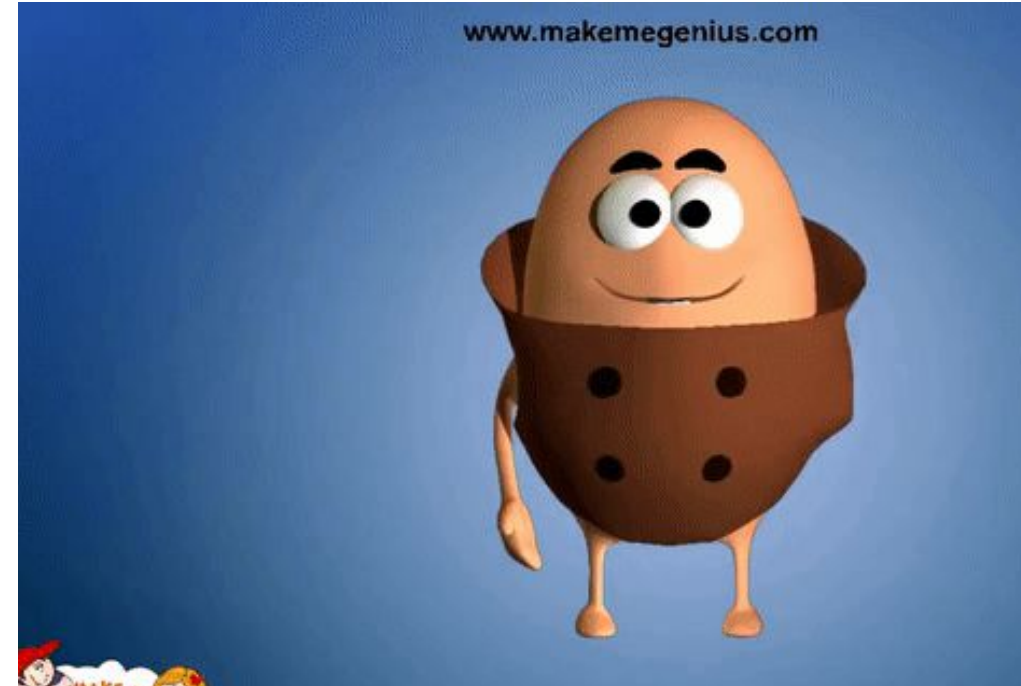


(a) Common bean

STRUCTURE OF A SEED

A seed has following parts:

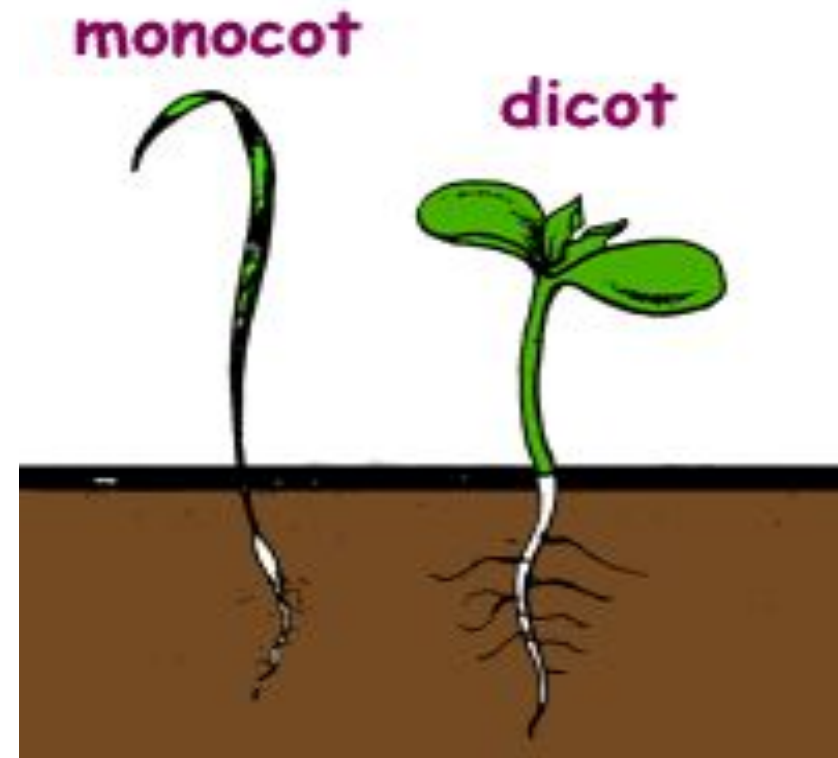
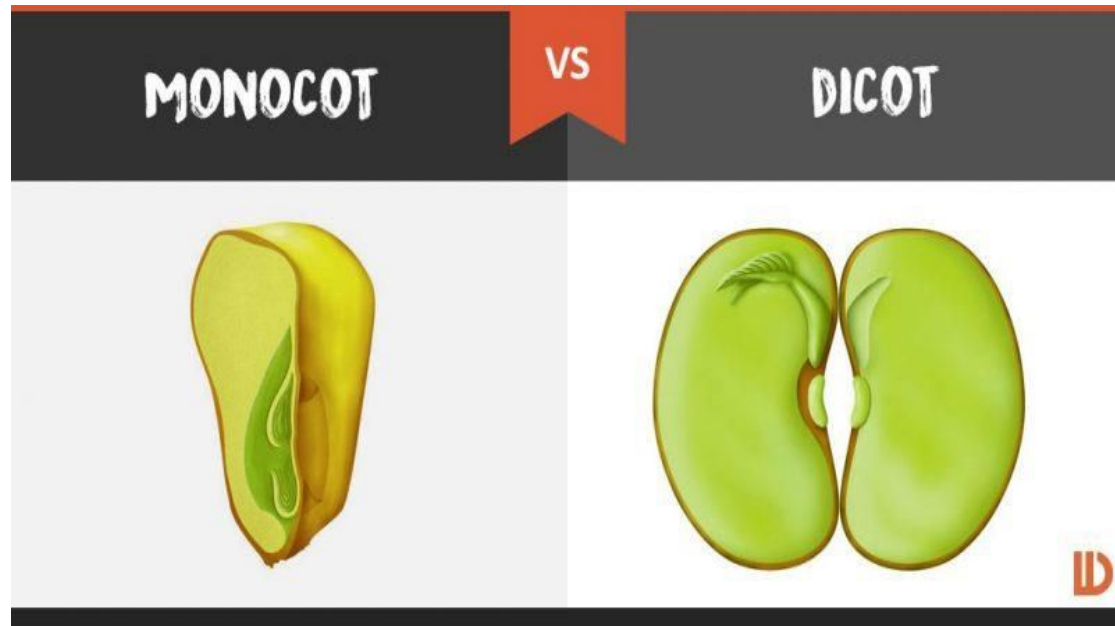
- **Seed coat**: It is a thick outer covering that protects all seeds.
- **Cotyledons**: Just below the seed coat seed leaves are present.
 - It protects the baby plant
 - They also store food for the baby plant



cotlydeons

STRUCTURE OF A SEED

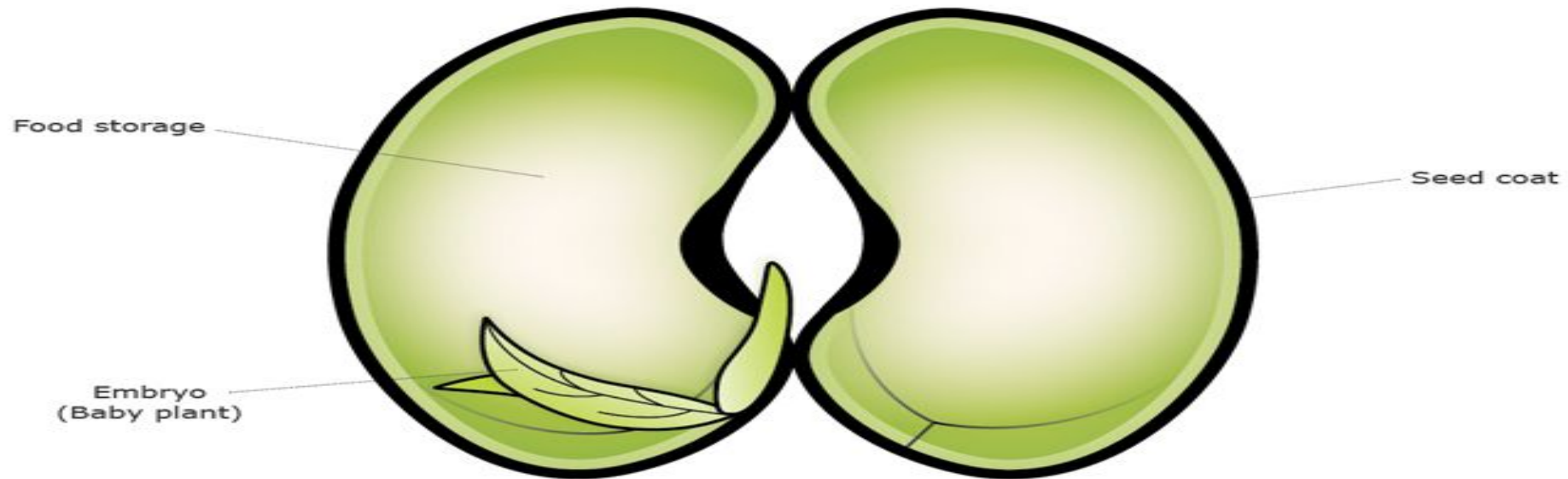
- **Monocot**: Plants having one seed leaf is called monocot plant
- **Dicot**: Plants having two cotyledons are called dicot



STRUCTURE OF A SEED

- **Embryo**: The baby plant present between the cotyledons is called the embryo.

It has a small root or radicle and a shoot or plumule.



SUMMING UP

- **Plant are the most useful gifts of nature for humans and animals**
- **A plant produces many seeds but only a few are able to grow into new plants**
- **A seed has a seed coat, seed leaves and baby plant inside it.**

QUIZ
TIME

NOTES

Date

Subject

1. The outer covering of a seed.

ANS: Seed coat

2. Seeds having two cotyledons.

ANS: Dicot

3. Seeds with one seed leaf.

ANS: Monocot

4. Baby shoot is also known as _____.

ANS: Plumule

5. Baby plant present inside the seed.

ANS: Embryo

HOMEWORK

- Write the difficult words.
- Draw a labelled diagram of structure of a seed.

LEARNING OUTCOME

The learner will be able to identify different parts of a seed.

THANKING YOU
ODM EDUCATIONAL GROUP