

Bal Bharati Public School, Navi Mumbai

Class-5 Science

Lesson 1-Plants: Increasing In Numbers

Answer key

1. Plants are useful to us in many ways like
 - i) They give us cereals,fruits,vegetables.
 - ii) They give us beverages like tea, coffee and coco.
 - iii) They give us wood,rubber,medicines etc.
 - iv)They give us fresh oxygen to breathe.
 - v) They help conserving the soil,

2. Study the picture given and answer the questions given below:

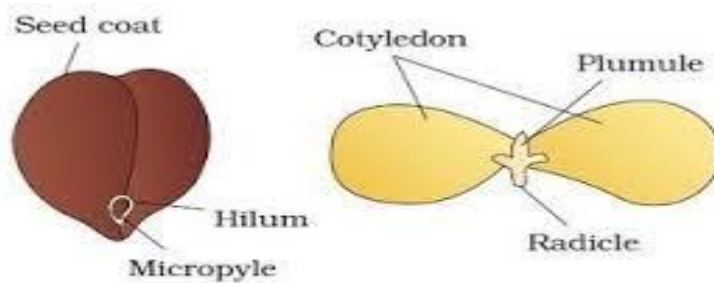


Figure 18. Structure of dicotyledonous seed

a. The three main parts of a seed are-

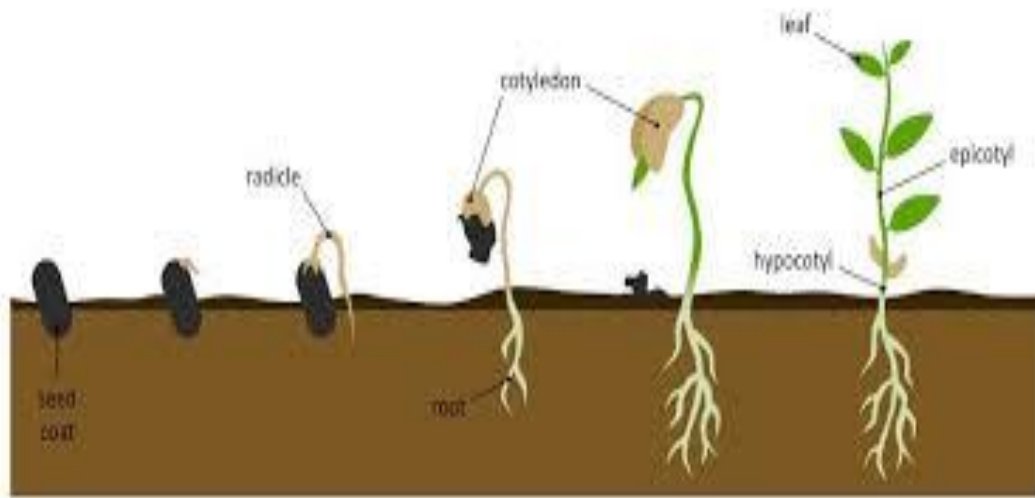
- i) seed coat
- ii) Seed leaves or cotyledons
- iii) Embryo-plumule (baby shoot),radicle (Baby root)

b.i) **Role of cotyledons** is mainly supply food to the growing embryo

ii) **Mircropyle:** A tiny opening in the seed through which water is absorbed to soften the seed coat to enable the root to emerge out at the time of germination.

3. Main conditions required for seed germination are-The right amount of air,water,sunlight and warmth.

4. Draw and label the different stages of seed



5. Identify whether monocot or dicot seed



1.Corn- monocot seed



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2.Rajma Dicot seed



3.wheat-monocot

6. Plants are fixed to the ground and cannot move. The seeds are then dispersed by different natural agents like-wind, water, animals and explosion.

7. Scattering of seeds is very essential for a plant because if all seeds were to fall under the mother plant then, all seeds will not get the right amount of air, water,space,and sunlight to grow properly.

8. Draw any two seeds dispersed by each of the agents of dispersal and label.

a. **Wind dispersal**-some seeds are light like cotton or dandelion and some seeds have wings that enable them to fly and move away from the parent plant



1.maple



2.dandelion

b. **water dispersal**-The seeds like coconut are light and have fibrous outer covering that enable the seed to float on water easily.Lotus and water lily seeds are spongy and light.



1.Coconut



2.water lily

c. **Animal dispersal**-some seeds have hooks and spines which stick to the furry hair of animals like dogs ,squireels,.,some birds swallow the seeds and disperse the seeds.



1. Thorny seeds



2. juicy fruit

d. **Explosion of seeds**: Some seeds explode or burst open when they dry and scatter the seeds.ex pea pod,balsam seeds



1. Pea pod



2. Balsam seeds

9. All new plants do not grow from seeds. They grow from other parts like roots, stem or leaf. If you were a gardener, which part of a plant would you plant to grow a new

1. Rose -stem cutting



2. ginger-buds or eyes



3. Sweet potato-Roots

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4. Bryophyllum-plantlets from the notches

