



Provincial Department Of Education – Sabaragamuwa
WEEKLY SCHOOL

Subject : Science

Grade 7

Week : 05th of 1st Term

Unit 1 – Plant Diversity(5)

➤ **Functions of plant leaves**

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Assignment 1.6

- Place a leaf of Bryophyllum in between two blotting papers and keep it between the pages of a book for few days.
- Observe it after few days.
- Identify the roots arising from leaf margin. They are called adventitious roots.
- Cut the leaf into pieces and get new plants by planting those pieces.

➤ **Parts of a flower and diversity of flowers**

- A typical flower consists of three parts. What are they?

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➤ **Diversity of fruits and seeds**



Assignment 1.8

- Collect fruits and seeds that are fallen near trees in the school garden. (Collect the seeds into a seed box)
- Collect fruits and seeds that are fallen under trees in your home garden.
- Collect different types of fruits and seeds that are not found regularly. (Try to find the names of those plants)

➤ Monocotyledonous and dicotyledonous plants



Assignment 1.12

- Collect many seeds as far as possible from your kitchen e.g.: -Gram, Paddy/Rice, Green gram, Tamarind, Cowpea, Beans, Long beans, Cashew, Arecanut, Maize, Jak seeds
- Take about five seeds from each type and soak them in water
- Take the seeds out of water after about 24 hours carefully
- Divide them according to number of cotyledons (seed leaves) inside the seed and add to Table 1.4

Table 1.4 - monocot and dicot seeds

Seeds with single seed leaf	Seeds with two seed leaves



Activity 1.9

- Take bean seeds and paddy seeds which were soaked for about 24 hours and keep them on a wet cloth for about three days. Add a little bit of water every day.
- When bean seeds are about to break into two, separate the seed lobes in one seed and observe them.
- Plant other seeds in pots with wet soil. After few days you can observe that there are two leaves different from the other leaves of the germinated bean seeds. They are called seed leaves.
- Seed leaf cannot be observed in paddy seeds. Because the seed leaf does not come out during germination.

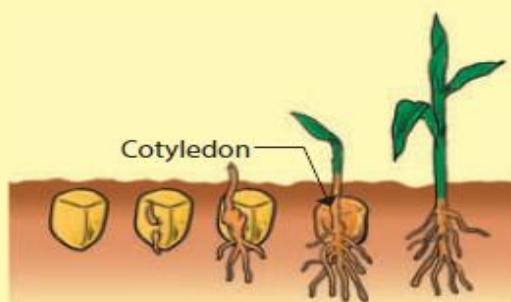


Figure 1.26 ▲ Germination of monocot seed

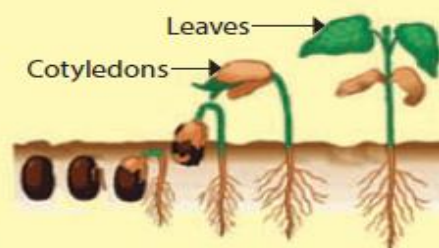


Figure 1.27 ▲ Germination of dicot seed



Assignment 1.13

- Observe the plants/ trees found in your school garden and group them as monocots and dicots.