

## Worksheet

1. Class : **Grade 8**      Subject: **Science**      Relevant week : **4<sup>th</sup> week of September**

2. Unit : **11 Main biological processes in plants**

3. Tasks to be done by the students :

- I. Cover a branch of a plant with a transparent polythene bag in day time and note down the observations after about an hour
- II. Keep a potted anthurium/ acacia ooze plant inside your house at night and observe that plant on next day. Observe the leaves of this plant and note down the observations..
- III. Prepare a report on followings

Adaptations shown by plant leaves, plant stem and plant roots to

- a. Reduce transpiration
- b. Store food
- c. Propagation

4. The books, websites, LMS lessons and other quality inputs that can be refer for above activities are (online, offline, printed) :

I. e -nenapiyasa:

- <https://www.enenapiyasa.lk/lms/mod/page/view.php?id=26401>
- <https://www.enenapiyasa.lk/lms/mod/page/view.php?id=26403>

II. e -thaksalawa:

- <https://www.e-thaksalawa.moe.gov.lk/moodle/mod/hvp/view.php?id=42744>
- <https://www.e-thaksalawa.moe.gov.lk/moodle/mod/hvp/view.php?id=42745>
- [https://www.e-thaksalawa.moe.gov.lk/moodle/pluginfile.php/243790/mod\\_resource/content/1/8%20%E0%B7%81%E0%B7%8A%20%E0%B6%BB%E0%B7%9A%E0%B6%AB%E0%B7%92%E0%B6%BA%20%E0%B6%B4%E0%B7%8F%E0%B6%A9%E0%B6%B8%2011.pdf](https://www.e-thaksalawa.moe.gov.lk/moodle/pluginfile.php/243790/mod_resource/content/1/8%20%E0%B7%81%E0%B7%8A%20%E0%B6%BB%E0%B7%9A%E0%B6%AB%E0%B7%92%E0%B6%BA%20%E0%B6%B4%E0%B7%8F%E0%B6%A9%E0%B6%B8%2011.pdf)

III. Youtube:

- <https://www.youtube.com/watch?v=2zOE1SplUHw&t=1193s>
- <https://www.youtube.com/watch?v=UYoVdDmfy5w&t=412s>

**5. The learning outcomes that should be gain from the lessons relevant to this week :**

- I. Explain the adaptations which are responsible for the diversity of plants
- II. Observe the environment with the aim of investigate the adaptations shown by parts of plants to perform the specific functions.
- III. Accept the importance of transpiration.
- IV. Differentiate the transpiration and guttaion.
- V. Design simple experiments to show transpiration in plants.

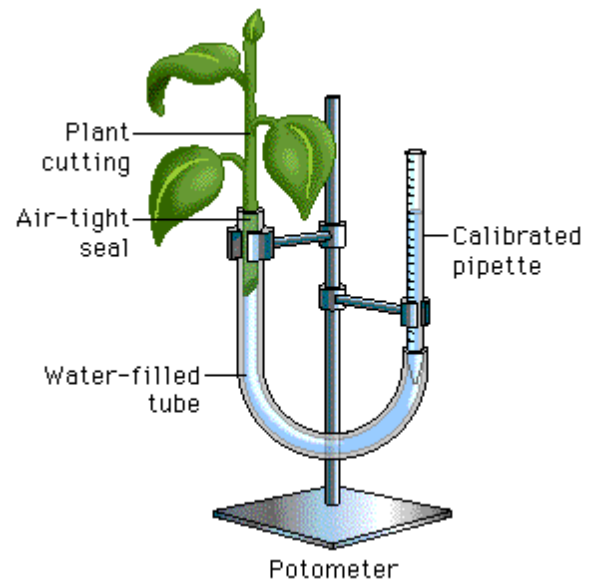
**6. Evaluation / Assessment Methodology:**



- 1) What is the structure of plant where transpiration occurs mostly?
- 2) What are the advantages of transpiration process?
- 3) What are the environmental factors that effect for the transpiration?
- 4) Write down the adaptations shown by plants in arid environments to conserve water with examples.

Study the activity 11.6 in your text book.

- 1) What happens to the water level in pipette which is attached to the free end of “U” tube?
- 2) What is the reason for above observation?



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