**16.** **Relationship between Water, Air   
and Plants**

Learning objectives

* Understand the functions of water in plants
* Understand the relationship between water, plants and air
* Grasp the idea of water conservation through plant irrigation

Water, air and plants are closely related to each other. Study the sentences below and put a 🗸 or 🗴 in the square provided next to the sentence.

1. Plants utilise carbon dioxide in the air to carry out photosynthesis.
2. Leaves of a plant absorb moisture in the soil.
3. The rate of photosynthesis in plants increases at night
4. If plants are sufficiently irrigated, oxygen content in the surrounding   
   will increase.
5. Plants grown in barren lands lack sufficient irrigation, which leads to   
   reduced rate of photosynthesis.
6. Water is lost from within the plants to the atmosphere.



In fact, we can always reuse water for the irrigation of plants as long as it is not contaminated by toxins or pollutants. Think about what kinds of waste water can be reused for watering plants and write your answer on the lines provided.

P5 – Natural Resources: Air

1



Reusing water for irrigation is a means of saving water. Every one can contribute to conserve water resources!

**16. Relationship between Water, Air   
and Plants**

Learning objectives

* Understand how to ensure that plants acquire sufficient water
* Understand drought-tolerant plants

Listed below are approaches to reduce water loss from plants. What would be the respective effect or harm of these approaches? Fill in the correct letter in the space provided.

A. Suffocate the plant　 　 B. Place the plant under the shade

C. Cover soil with barks and pebbles D. Seal the plant with plastic bag

E. Reduce evaporation of water from the soil surface

F. Reduce evaporation of water by the sun’s heat

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| --- | --- | --- | --- |
|  |  |  |  |
| Approach |  |  |  |
| Effect |  |  |  |



Some drought-tolerant plants are born with hard and thick leaves, while others hold water with thick stems. Drought-tolerant plants require relatively less water which help save water for irrigation. Which of the followings are drought-tolerant plants? Circle the correct answers. (You may select more than one option.)

2

P5 – Natural Resources: Air

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| Cactus | Aloe | Hibiscus | Echeveria |