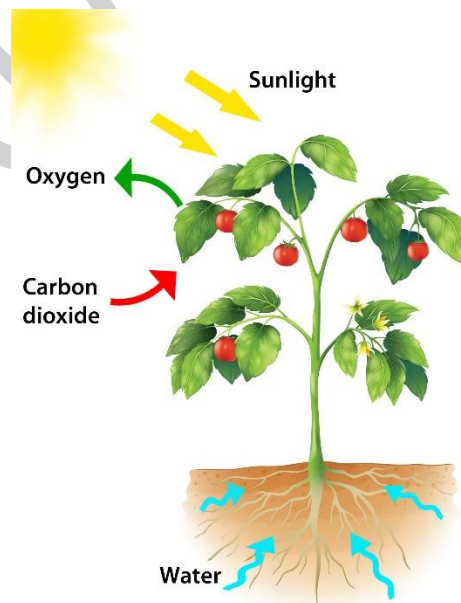
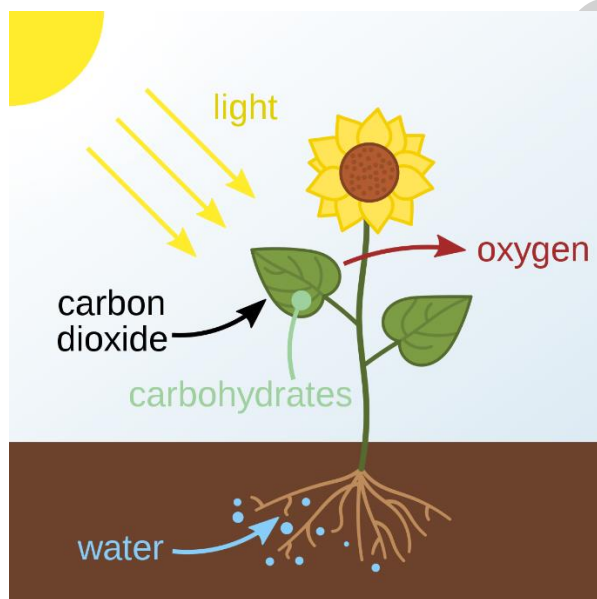
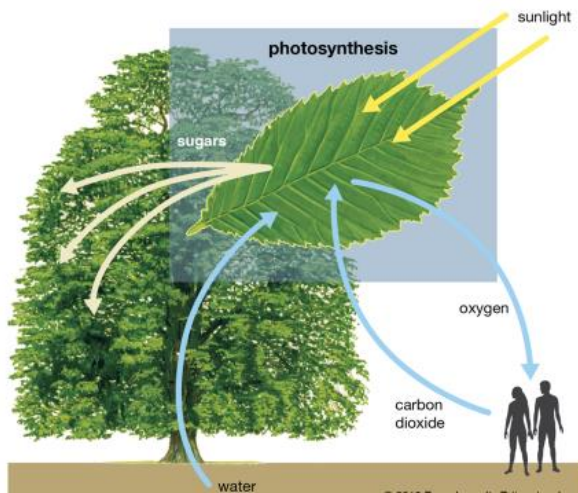


Chapter 2 - Photosynthesis

Introduction

- 1) consume other organisms such as &
- 2) Therefore are called
- 3) depend on other organisms such as &
- 4) Therefore are called
- 5) produce their own
- 6) Therefore are called
- 7) use a process called to produce their own
- 8) Production of & by plants with the help of found inside using and when is present is called



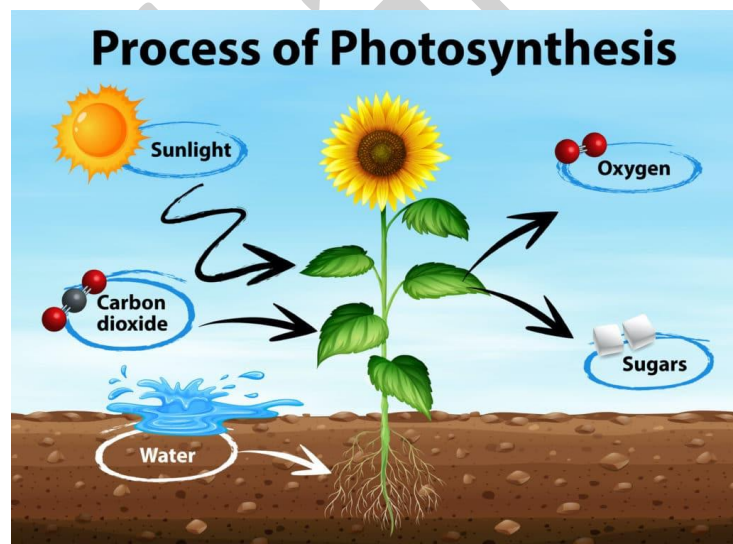


Photosynthesis:

1. The plant draws up water (H_2O) through its roots
2. The leaves take in CO_2 from the air
3. The leaves trap energy from sunlight
4. The plant uses the energy of sunlight to turn water (H_2O) and CO_2 into sugars and oxygen (O_2)
5. The plant releases oxygen (O_2) into the air
6. The plant uses the sugars for growth

A diagram of a small plant illustrating the steps of photosynthesis. 1. Water H_2O is drawn up from the roots. 2. CO_2 enters the leaves. 3. Sunlight hits the leaves. 4. Sugar & Oxygen are produced. 5. Oxygen O_2 is released. 6. Growth occurs.

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Factors necessary for photosynthesis

- 1) - External factor
- 2) - External factor
- 3) - External factor
- 4) - Internal factor

Raw materials necessary for photosynthesis

- 1)
- 2)

Products of photosynthesis

- 1) – The main product
- 2) – A by product

Word equation of photosynthesis



Balanced equation of photosynthesis

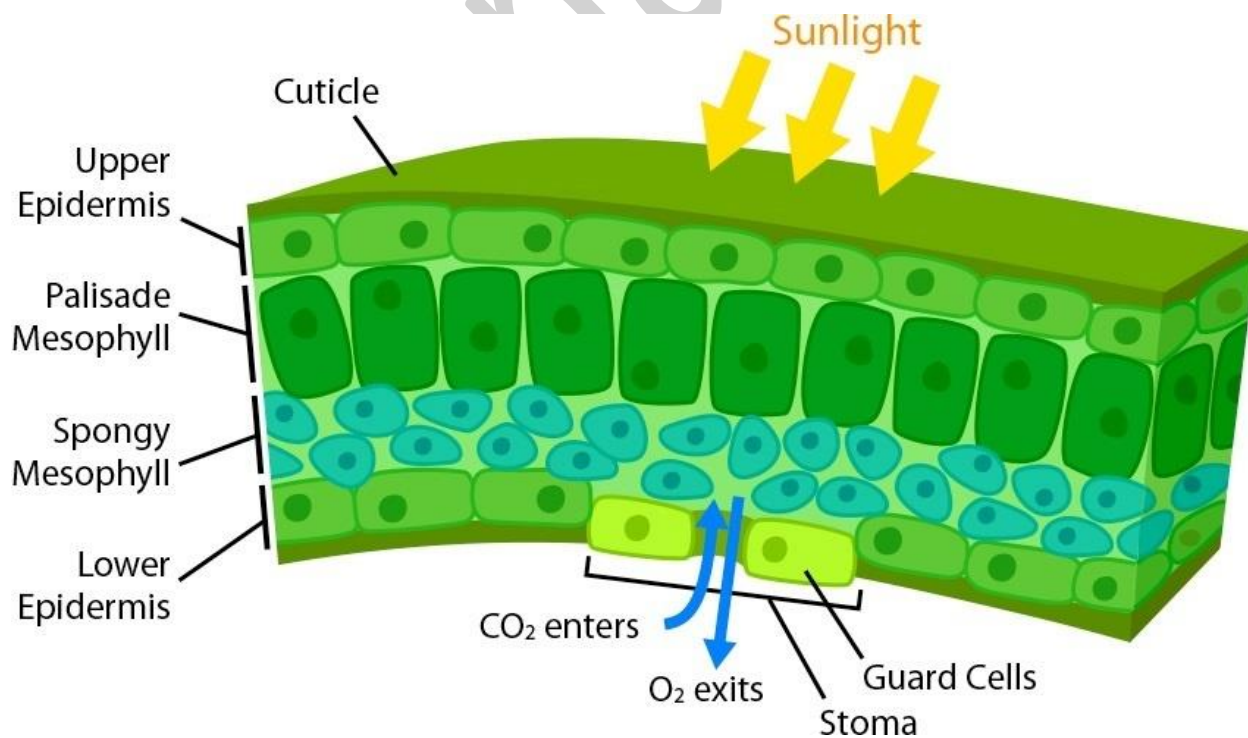
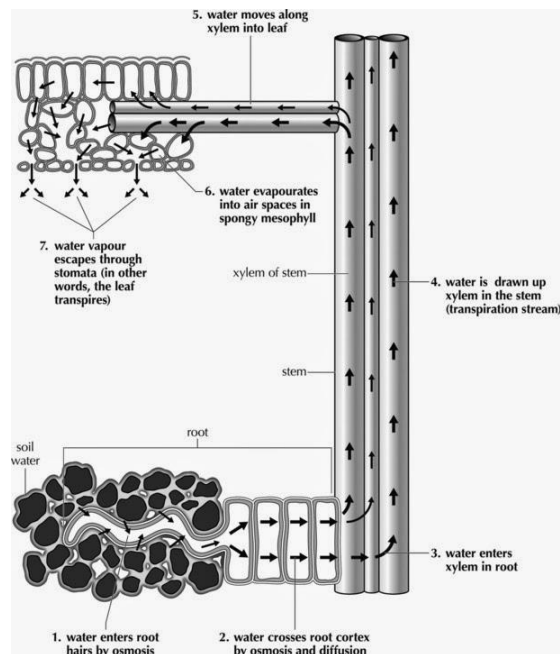


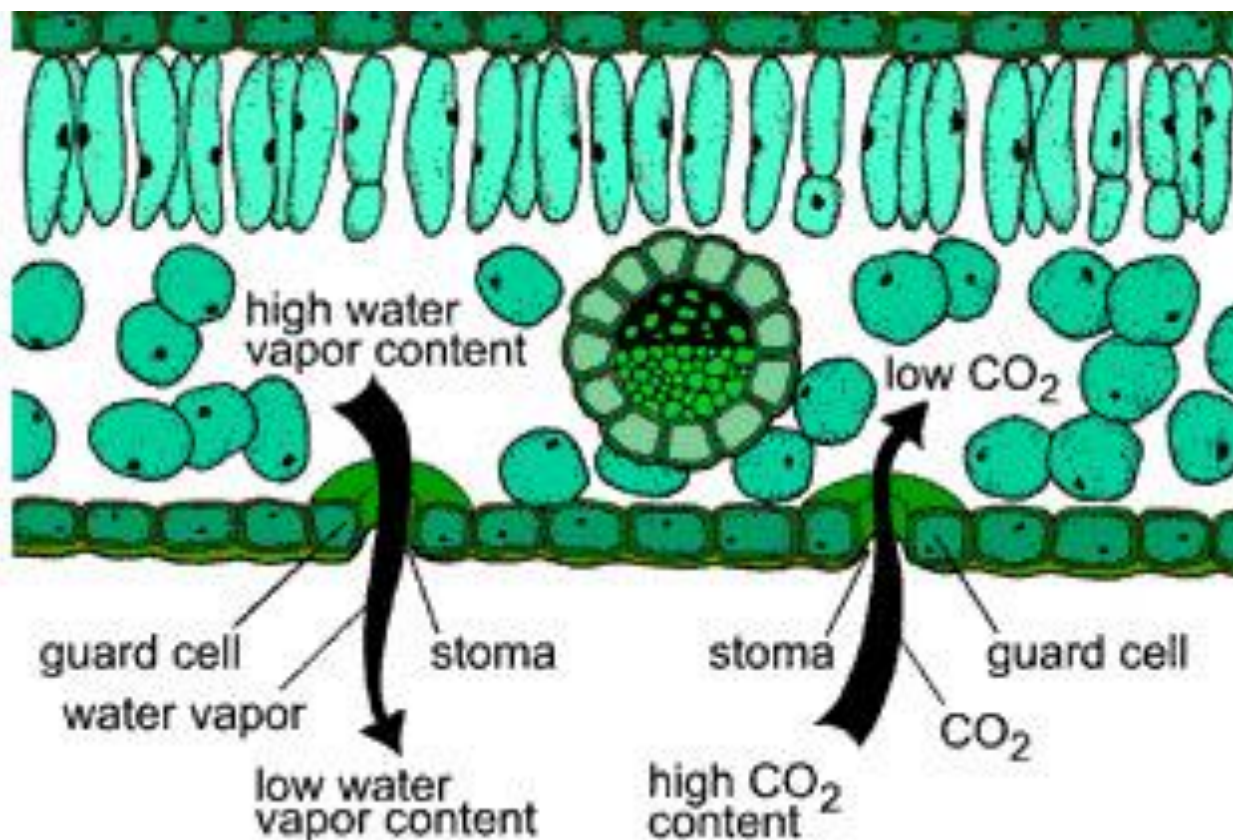
How water is obtained by terrestrial for photosynthesis

- 1) Soil enters the due to a process called
- 2) → of the root → of the root → of the root → of the stem → of the vein → mesophylls in leaves

How carbon dioxide is obtained for photosynthesis

- 1) in the atmosphere through the and enters the and then reach the mesophyll cells.





Fate of the products of photosynthesis

- 1) produced during will be converted into and store in the
- 2) Later, a part of stored in the leaves will be converted into and to other parts through the tissue.
- 3) Later will be converted back into and store in the storing organs.
- 4) will enter the and through the to the atmosphere.