

## شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



## ملخص الدرس الأول survival Plant بقاء النبات

[موقع المناهج](#) ← [المناهج الإماراتية](#) ← [الصف الخامس](#) ← [علوم](#) ← [الفصل الثالث](#) ← [الملف](#)

تاريخ إضافة الملف على موقع المناهج: 2024-04-27 08:08:07

## التواصل الاجتماعي بحسب الصف الخامس



اضغط هنا للحصول على جميع روابط "الصف الخامس"

## روابط مواد الصف الخامس على تلغرام

[الرياضيات](#)

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## المزيد من الملفات بحسب الصف الخامس والمادة علوم في الفصل الثالث

[حل أسئلة الامتحان النهائي الالكتروني انسابير](#)

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[أسئلة الامتحان النهائي الورقي انسابير](#)

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# **PLANT SURVIVAL SUMMARY**

Term	Definition
Energy	the ability to do work or change something
Stomata	Small openings under leaves where oxygen and carbon dioxide can pass
Xylem	Plant tissue that carries water upward from the roots to every part of a plant
Phloem	Plant tissue that carries sugar/food around a plant
Transpiration	the process by which plants release water vapor through their leaves.



## Plant structures

What is the purpose of each part ?

1-Root : absorb water and nutrients and move it to stem. (root need space to spread out and grow)

2-Stem: moving water, nutrients, oxygen and food.

3-Leaves:making food and move it to all plant parts, taking CO<sub>2</sub> release water and oxygen out.

Taking sunlight .



## What do plant need to survive ?

1-water. 

2-sunlight. 

3-Space. 

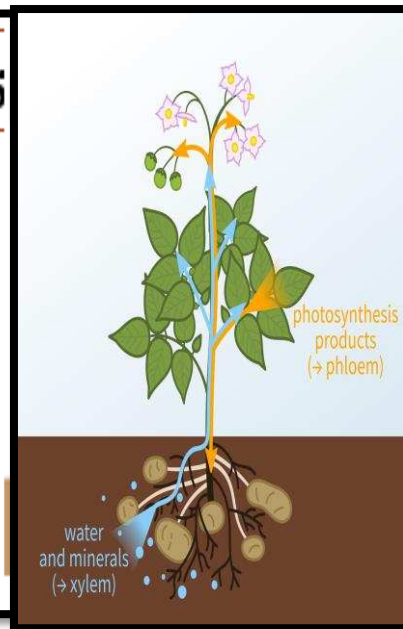
4-nutrients. 

5-Air 

## xylem and phloem in plants

1-Xylem : tissues that moves water and nutrients taken in by the roots up through the stem to other plant parts.

2-Phloem: tissues that move sugars made in plant leaves up and down the plant to all its different parts.



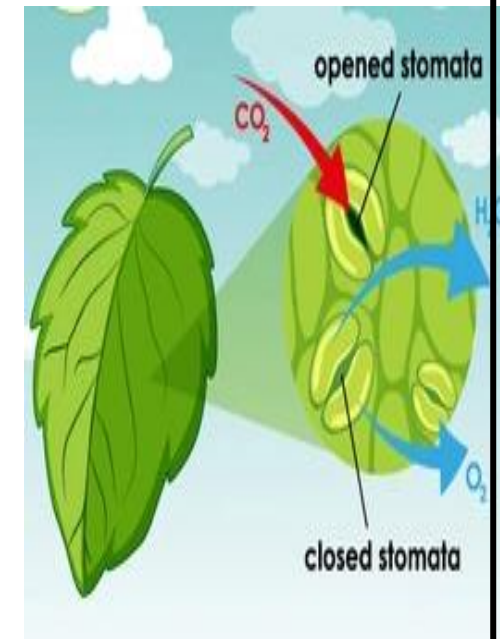
## Stomata

- **Stomata:** Small opening found most on the underside of leaves.

-What is the purpose of stomata? To allow oxygen and carbon dioxide in and out of leaves to make food and live

-Close to prevent water from escaping.

- Most plants open their stomata during the day to let CO<sub>2</sub> in and oxygen with water vapor out.



## Photosynthesis process

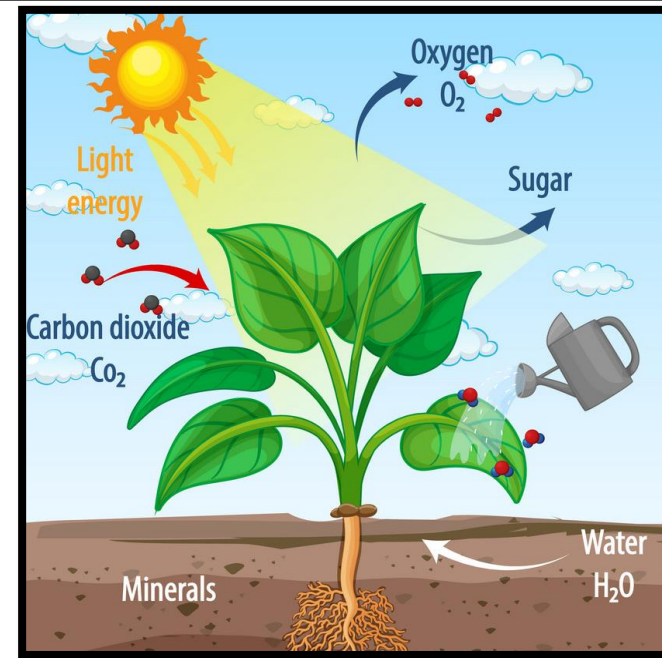
**Photosynthesis** : Process to make food in plants.

Photosynthesis equation :



What plant needs to make food? 1- sunlight 2-carbon dioxide 3-water

What is the product of photosynthesis? 1- Sugar 2- oxygen



## Transpiration process.

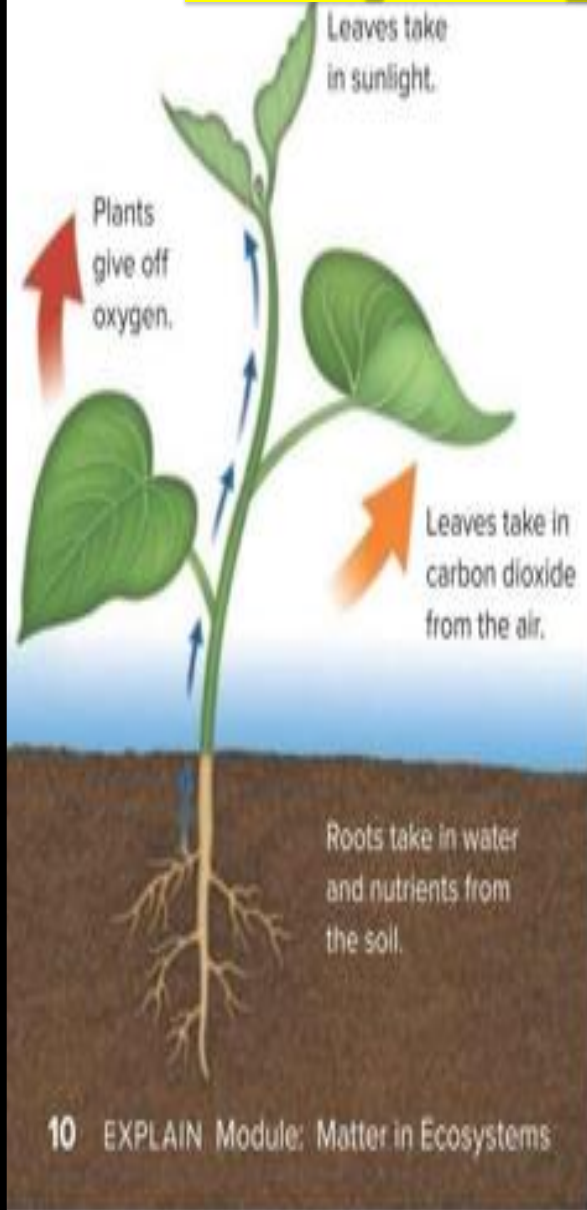
**Transpiration** : the evaporation of water from a plant's leaves.

Explain how transpiration helps plants keep a balance of water?

As water moves out of the leaves through the stomata → , **more water is pulled up** from the roots replacing the evaporated water.



# Very important!



Explain how the diagram provides evidence of the major roles of the different plant parts and the flow of energy, water, and air.

Sample answer: Plants give off oxygen and take in carbon dioxide from the air. Leaves capture energy from the Sun. Roots take in water and nutrients.

1. Why would it be a disadvantage if plants grow too close together?

Sample answer: Plants that grow too close together compete for the same resources or need more space to grow bigger.

2. Some woody vines can grow on rainforest trees and climb high into the tree canopy. Why would this be an advantage?

Sample answer: Vines can access sunlight more by climbing the stem of taller plants.



Some plants need more water than others. Cacti can survive in deserts with little rain, while the plants in a rain forest live in a very wet area.

### 5- Transpiration

Losing of water by stomata, then water carried from the bottom to replace evaporated water

4- After photosynthesis, sugars are transported by phloem tissue to plant's part.

3- Leaves use water and carbon dioxide from the air in photosynthesis to produce sugar and oxygen

2- Xylem transport water to leaves to do photosynthesis

1- roots absorb water from soil

