

Grade 6 - Science

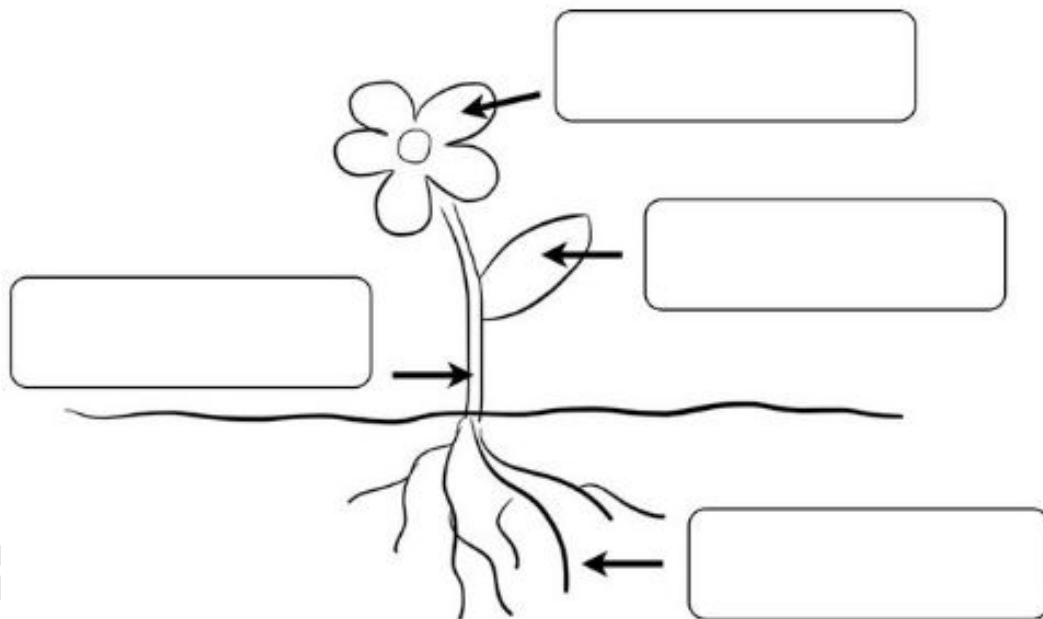
Student Study Pack

Week	Topic	Lesson	Resources
Week 22	Plant Biology 1	Structure & Function	Longman Biology pg 106-108
Week 23	Plant Biology 2	Photosynthesis	Longman Biology pg 30-31
Week 24	Plant Biology 3	Transpiration	Longman Biology pg 33-34

*if Longman Biology textbook is not available, use notes and booklets provided in class.

Plant Structure

Label the parts of the plant in the diagram below:



1) Use the word bank to complete the sentences below:

plant	ground	water	photosynthesis	sun
energy	leaves	supports	minerals	food

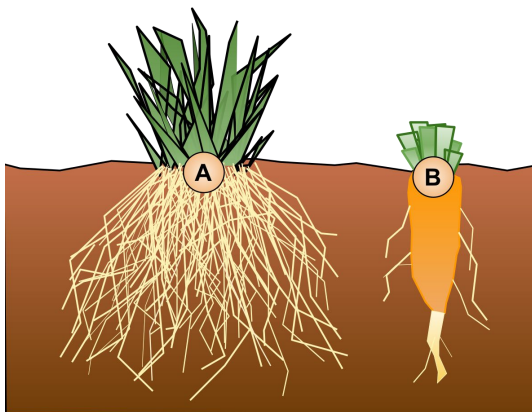
Roots absorb _____ and _____ from the soil and keep the _____ in the ground.
 Leaves collect _____ from the _____ and make _____ for the plant by the
 process _____.

The stem _____ the plant above the _____, and carries the water and minerals to the
 _____.

2) What are these root systems?

A _____

B _____



Photosynthesis

1) What is photosynthesis?

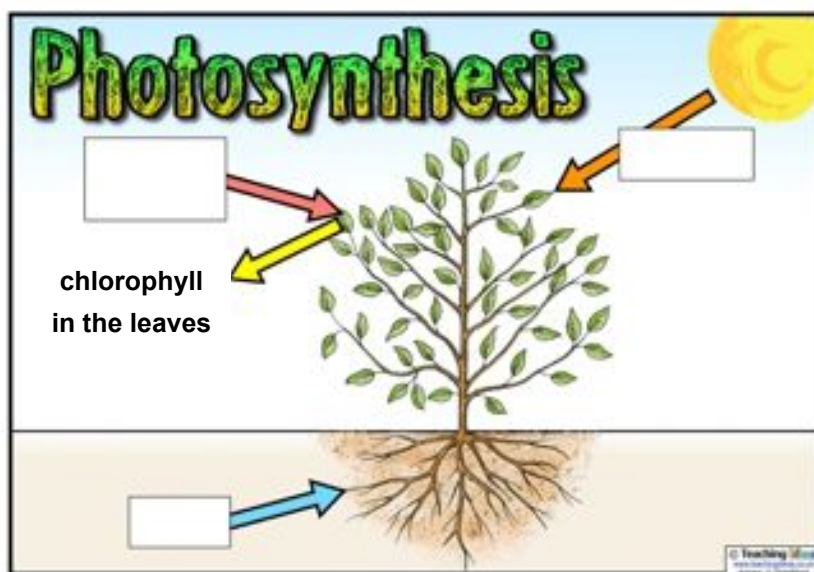
2) What do plants need for photosynthesis? (Label the diagram below)

a) _____

b) _____

c) _____

d) chlorophyll in the leaves



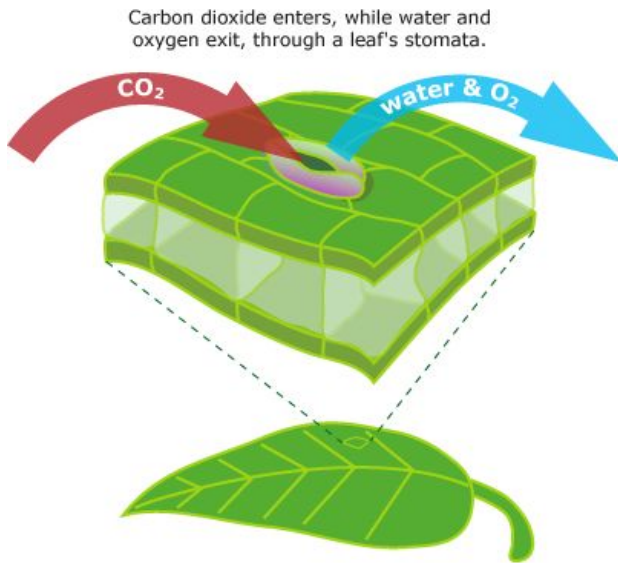
3) In the chemical equation for photosynthesis, which chemicals are the reactants and which chemicals are the products?

Reactants: _____

Products: _____

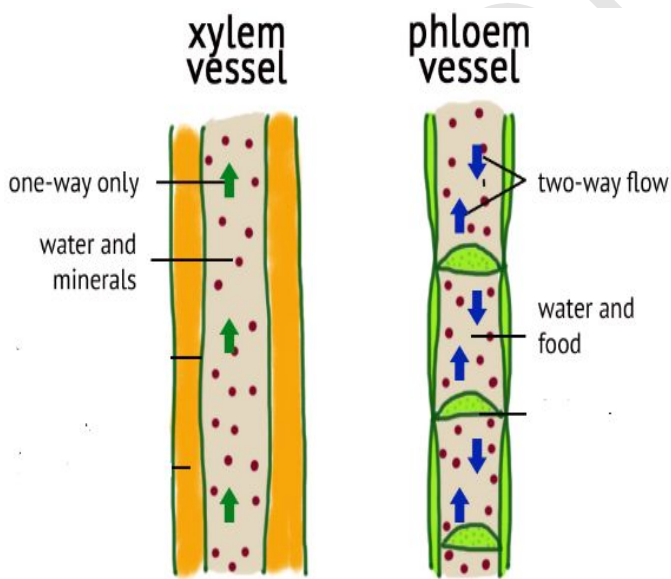
4) Where does photosynthesis occur in the plant?

5) Where can gases enter and exit the plant?



6) What do we call the two tubes that transport water, minerals and sugars around the plant?

- a) _____
b) _____



7) What is the name of the tube/vessel that carries water from the roots of the plant to the leaves?

Watch this video on YouTube to help you understand the process of photosynthesis.

Science - Amazing Process Of Photosynthesis

<https://www.youtube.com/watch?v=pFaBpVoQD4E>

Transpiration

1) Why do plants need water?

2) Use the word bank to complete the sentences below:

roots	leaves	movement	stem
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Transpiration is the _____ of water through a plant. Water enters through the _____, moves up the _____, travels to and evaporates out from the _____.

3) There are two important properties of water that allow it to move up a plant. Describe them with the help of the following diagrams.



Cohesion



Adhesion

Cohesion: _____

Adhesion: _____

Watch these videos on YouTube to help you understand the process of transpiration.

Xylem and Phloem - Transport in Plants | Plants | Biology | FuseSchool

<https://www.youtube.com/watch?v=jtuX7H05tmQ>

Xylem and Phloem - Part 2 - Transpiration - Transport in Plants | Plants | Biology | FuseSchool

https://www.youtube.com/watch?v=Kv_0udatlh8&list=PLW0gavSzhMIQQbe6DsL6tqOQZfs7UQpHp&index=2