Name:	Date:	Class:		
	Photosynthesis			
	Voc	abulary		
	Directions: Match the terms with the definitions below.			
	photons	chloroplast		
	stoma	xylem		
	phloem	thylakoid		
	granum	stroma		
	carbon	chlorophyll		
1.	After sucrose is manufactured in th	e leaf, it is carried via the to		
	feed the rest of the plant.			
2.	You can find the element	in diamonds, coal, and wood.		
3.	A plant can lose a lot of water durin	ng a hot day, which is why each		
	closes during the hottest part of the	day, and opens in the cooler evenings.		
4.	absorbs most of the o	colors of light waves, except the green, which		
	bounces back off.			
5.	The thylakoid membranes are found in stacks called			
6.	Water travels from the ground up the	arough the plant's stem through the		
7.	The light reactions take place insid	e the chloroplast within the		
	membrane.			
8.	The organelle that harvests light energy is the			
9.	The is the watery ma	trix where the dark reactions of photosynthesi		

take place.

10. \_\_\_\_\_ originate on the sun's surface and travel to earth in waves.

Name	Date	Class	

## Photosynthesis Quiz

Directions: Write the letter of the best answer in the space provided, or write true or false for each statement.

- 1. Which of the following is the best definition of a photon?
  - a. package of light energy that travels in waves
  - b. burst of fire found on the sun
  - c. ultraviolet light
  - d. oxidation of energy
- True or False? Photosynthesis is the process of converting light energy to chemical energy.
- 3. \_\_\_\_\_ True or False? Photosynthesis takes place mainly in a plant's stem and root system.
- 4. \_\_\_\_\_ Which of the following is the chemical equation representing photosynthesis?
  - a.  $ADP-3 + pi-2 + H + H_2O$
  - b.  $ATP-4 + H_2O$
  - c.  $6 \text{ CO}_2 + 6 \text{ H}_2\text{O} - - \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6 \text{ O}_2$
  - d. ADP + 6  $H_2O - - \rightarrow C_6H_{12}O_5 + 6 H_2O$
- 5. \_\_\_\_\_ Which of the following is the substance that allows photosynthesis to occur?
  - a. sucrose
  - b. chlorophyll
  - c. lactose
  - d. all of the above
- 6. \_\_\_\_\_ What are the two life-sustaining by-products of photosynthesis?
  - a. sunlight and oxygen
  - b. carbon dioxide and oxygen
  - c. water and oxygen
  - d. oxygen and sugar
- 7. \_\_\_\_\_ What are the openings found on the underside of the leaf called?
  - a. stroma
  - b. stomata
  - c. chloroplast
  - d. palisade mesophyll

8	What is the organelle called where photosynthesis takes place?
	a. chlorophyll
	b. epidermis
	c. thylakoid membrane
	d. chloroplast
9	Where do the light reactions of photosynthesis take place?
	the inner membrane of the chloroplast
	b. the thylakoid membrane
	c. the Calvin-Benson cycle
	d. the electron of NADPH
10	The light harvesting reaction centers of the chloroplast are known as
	a. a hydrogen molecule
	b. an oxidation
	c. a photosystem
	d. a phloem
11	The sugar assembly takes place in the
	a. stroma
	b. granum
	c. mesophyll
	d. all of the above
12.	True or False? It takes six molecules of water plus six molecules of carbon
	dioxide to produce one molecule of sugar plus six molecules of oxygen.
13.	True or False? ATP is produced as a result of the build-up of hydrogen ions.
14.	True or False? The light reactions are also known as the Calvin - Benson cycle