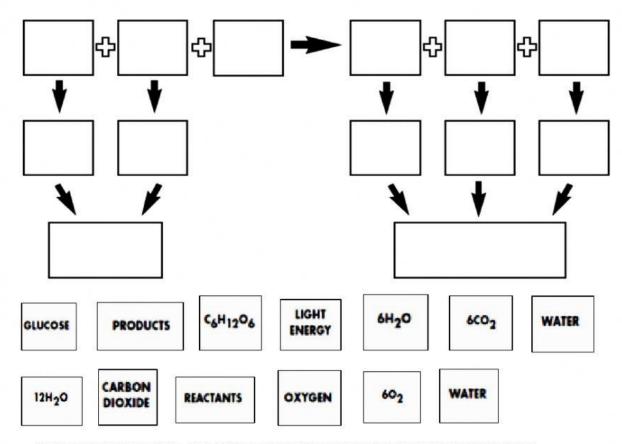
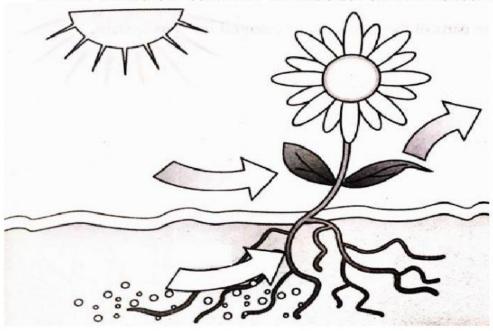
PHOTOSYNTHESIS

MSc. Boris Guerra R

I. DRAG AND DROP THE CORRECT COMPONENTS AND REACTANTS TO FILL IN THE EQUATION FOR PHOTOSYNTHESIS.



II. LABEL THE PICTURE COMPLETE THE PROCESS FOR THE PHOTOSYNTHEIS



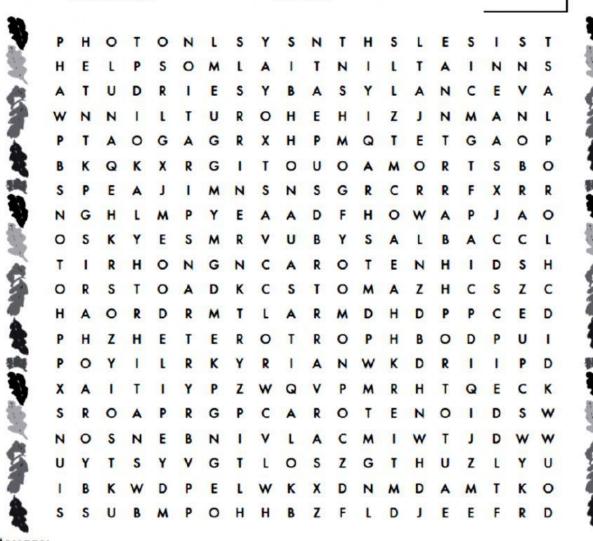
Hidden Message Word Search

Find each of the vocabulary words listed below in the puzzle. They may be across, up and down, backwards or diagonal. Circle or cross out each word. When you're finished finding all of the words, look carefully at the first three rows of the puzzle. Write the letters that remain in these rows in the spaces below the puzzle. Make sure to copy them in the exact order that they appear. This will reveal the hidden message.

ATP
AUTOTROPH
BACTERIA
CALVIN-BENSON
CARBON
CAROTENOIDS
CHLOROPLAST

CHLOROPHYLL
GRANUM
HETEROTROPH
MESOPHYLL
PHOTONS
PHOTOSYNTHESIS
PROTISTS

STOMA STROMA THYLAKOID TRANSPIRATION



IV. MATCH THE FOLLOWING COLUMNS, READ CAREFULLY.

What is the overall reaction for photosynthesis?

How does the overall reaction to photosynthesis compare to the overall reaction for cellular respiration?

Where does the energy for photosynthesis come from?

What plant pigments are involved in photosynthesis?

Explain why chlorophyll appears green to us in terms of what happens to different wavelengths of light that strike a chlorophyll molecule.

How does the amount of energy in light change as the wavelength increases. The sun

To create glucose

Clorophyll a Carotenoids Xanthophyls Chlorophyl b

Since cellular respiration starts off with glucose and ends with ATP, they are opposites

As the wavelength increases the amount of energy decreases

Chlorophyll is not good at absorbing green wavelengths so instead it reflects them



V. COMPLETE THE FOLLOWING PARAGRAPH, USE THE WORDS BELOW.

	<u>Chloroplasts</u>	Plant Cell Chloropiast
2	is a process in which sunlight energy is used to make	Bertran
Th	he site of photosynthesis is in the an organelle	- AB
found in th	he of green plants. The main functions of chloroplasts are	TA AV
to produce	e food (glucose) during photosynthesis, and to store food	STATE OF
Chl	nloroplasts contain the <i>chlorophyll.</i> Chlorophyll absorbs	7 T
most of the	he colors in the color spectrum, and reflects only green and	
yellow		- Ten
because th	hese colors are reflected into our eyes.	(Rack of Thysiolox
<u>chloroplast</u>	Photosynthesis glucose. leaves energy. pigment	wavelengths (
VI. ANS	SWER THE FOLLOWING QUESTIONS.	
The product	its are glucose and oxygen . The glucose produced is used by the plant for e	nergy and growth.
We also use	e this glucose by eating plants. The oxygen produced is released into the ai	r for us to breath.
Photosynthe	esis is essential for all life on earth, because it provides food and oxygen.	Plants are
	autotrophs because unlike us humans, they can make their own food using	
considered	autotrophis because unlike as humans, they can make their own rood asing	inis process.
What	at is produced in photosynthesis?	
What	at is the glucose used for?	
	nt is the awaren used for?	

