WLHS / Biology / Monson	Name	Per
	Date	Per
	in Science: Photosyr	
(http://www.bozeman	science.com/photosynth	nesis)
OVERVIEW		Energy Oxygen(O2)
1) What are two things that photosynthesis gives	s us that we need?	Released
a)		Carbon Dioxide (CO:) Food
b)		,
2) Aside from plants, what other organisms can o		Water from soil
3) In eukaryotes, in which organelles does photo	synthesis occur?	
4) Use the diagram to the right:		
a) Circle and place a (T) where a thylakoid is	s. 🖉	
b) Shade in the area where the stroma is.		
5) TRUE or FALSE (airola ana) Thara ia ank 1 r	airmont found in a loof	
5) TRUE or FALSE . (circle one) There is only 1 p	-	
6) Which color is the "least favorite" of a plant?		_Why?
7) Fill in the missing "ingredients" to the photosyr	nthesis equation below:	
6H₂O + + light → _	+	6O ₂
8) What are the 2 steps to photosynthesis?		
a)	(occurs in thylakoid)	
b)	(occurs in stroma)	
LIGHT REACTIONS (Light-Dependent Reaction		
9) What are the 2 things that are coming into the	thylakoid to start off the	e light reactions?
a)		O ₂ Light
b)		H-O URITICETIONS
		ATP NAPD*
10) What is the light used for in this step?		CO ₂ Calvin cycle
11) The water is split breaking into	and	Sugar

12) What is created as the hydrogen protons go through the ATP synthase?_____

13) Where do the NADPH and the ATP produced in the light reactions go?_____

CALVIN CYCLE (Light-Independent Reactions)

- 14) How does carbon dioxide enter the leaf?_____
- 15) What can G3P be assembled into?_____

Stoma onen

Stoma closed

PHOTORESPIRATION & Plant Evolutionary Adaptations

- 16) When does photorespiration occur?_____
- 17) What are almost all plants called?
- 18) a) When would a plant not have enough carbon dioxide?
 - b) When do the stomata close?____
- 19) What is an example of a **CAM** plant?
- 20) When do CAM plants open up their stomata?_____
- 21) What is an example of **C4** plant?_____

