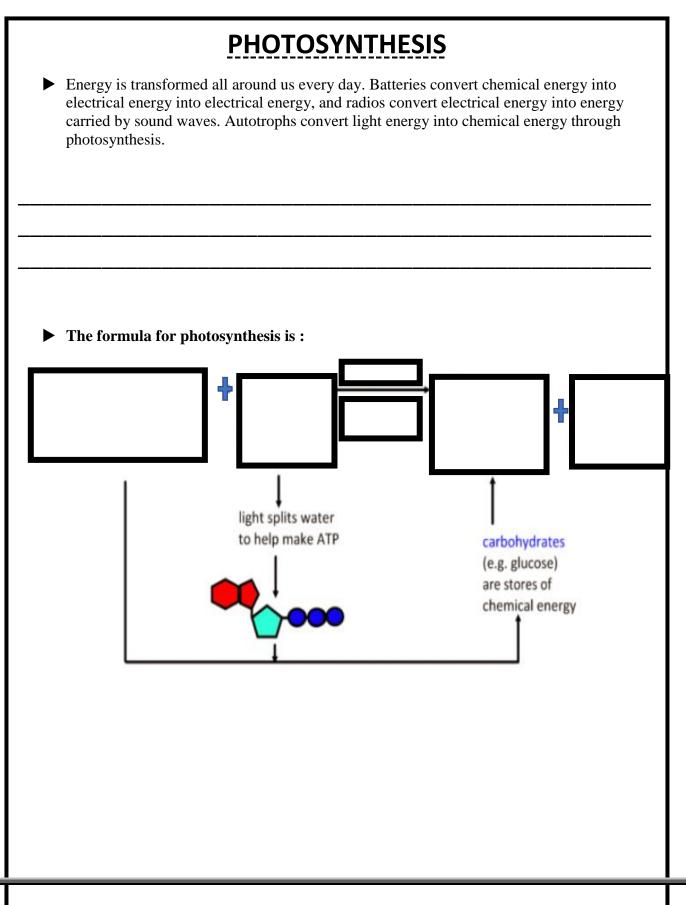
Name:	Cellul	lar Transport	
*Explain the interrela	eactants, products, and basic ated nature of photosynthes nt role that ATP serves in me		cellular respiration.
ACTIVATOR	: How do living things obtair	n energy? Plants, Lions, Zebras, b	acteria?
The Sun	Autotroph	Heterotroph	Heterotroph
All Organism	as need energy to live		
All Organism	as need energy to live		
All Organism	ns need energy to live		
All Organism		are called	and they
All Organism	Heterotrophs		and they
All Organism	Heterotrophs	are called	and they
All Organism	Heterotrophs		and they
All Organism	Heterotrophs		and they
All Organism	Heterotrophs		and they
All Organism	Heterotrophs MET		

Name	Ν	а	m	h	e	
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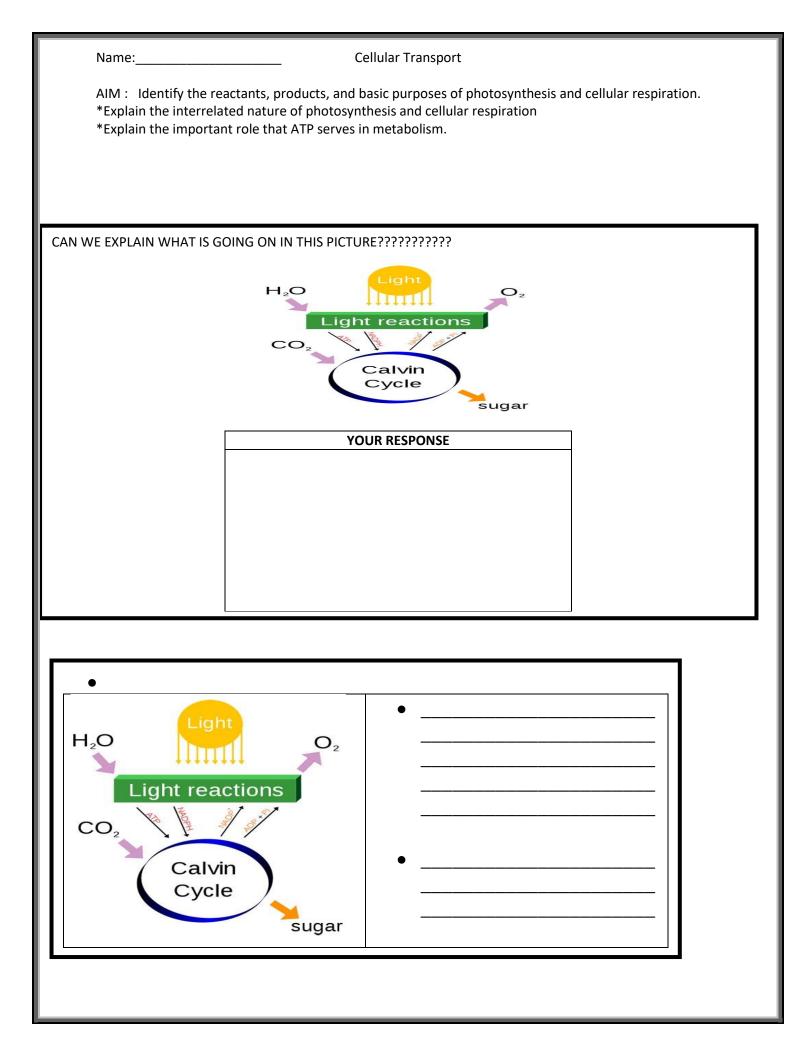
**Cellular Transport** 

AIM : Identify the reactants, products, and basic purposes of photosynthesis and cellular respiration. \*Explain the interrelated nature of photosynthesis and cellular respiration

\*Explain the important role that ATP serves in metabolism.



	Cellular Transport
*Explain the interrelated r	nts, products, and basic purposes of photosynthesis and cellular respiration. nature of photosynthesis and cellular respiration le that ATP serves in metabolism.
Diffusion across a plasm	a(cell) membrane
6 CO <sub>2</sub> 6 H	water <u>light</u> glucose + oxygen chlorophyll C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> 6O <sub>2</sub> psplits water ip make ATP carbohydrates (e.g. glucose) are stores of chemical energy
•	molecules, such as proteins, lipids, and mucleic acids.  Figure 8.5 Photosynthesis occurs inside pigmented organelles called chloroplasts.
	Plant cell     Chloroplast       Tissue layers     Gell yeal     Vaccole       Vaccole     Chloroplast     Uter       Mucleus     Nucleus     Mucchondrion       Kitochondrion     Trylakold     Location of plase two

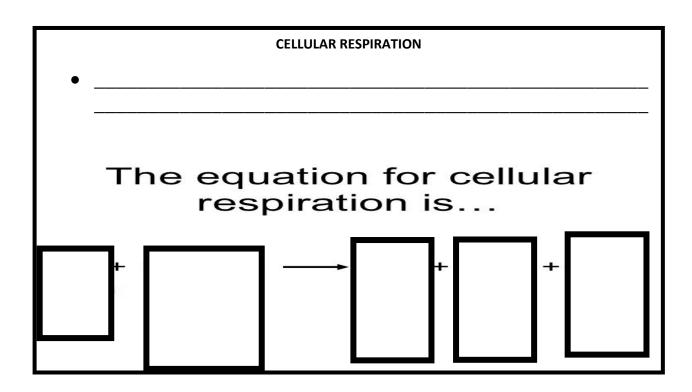


**Cellular Transport** 

AIM : Identify the reactants, products, and basic purposes of photosynthesis and cellular respiration.

- \*Explain the interrelated nature of photosynthesis and cellular respiration
- \*Explain the important role that ATP serves in metabolism.

**Activator:** Plants use Photosynthesis, WELL WHAT ABOUT THINGS THAT ARE NOT PLANTS???? How do they get energy?



Name:	Cellular Transport	
*Explain the interrelated nat	i, products, and basic purposes of pho cure of photosynthesis and cellular res that ATP serves in metabolism.	
O <sub>2</sub> + C <sub>6</sub> H Oxygen Glucos	Carbon	+ H <sub>2</sub> O + ATP Water Energy
	VS	
carbon dioxide 6 <b>CO</b> 2	Ļ	glucose + oxygen $C_6 H_{12} O_6 6 O_2$
	light splits water to help make ATP	carbohydrates (e.g. glucose) are stores of chemical energy
DO WE NOTICE	ANY PATTERN OR SIMIL	ARITY???????????
$O_2 + C_6 H_2$	$_{12}O_6 \longrightarrow CO_2$	+ $H_2O$ + ATF
Oxygen Glucos	e Carbon dioxide	Water Energy
Oxygen ar	on is the opposite of Photosynthesi nd Glucose begin the reaction and e produced at the end.	

Name:

**Cellular Transport** 

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## WHICH IN ANAEROIBIC? WHICH IS AEROIBIC?

- 6 Which of the following substances is used by plants as a reactant in photosynthesis?
  - A. carbon dioxide
  - B. glucose
  - C. oxygen
  - D. pyruvic acid



Some types of bacteria are able to perform photosynthesis. These bacteria must therefore contain which of the following in their membranes?

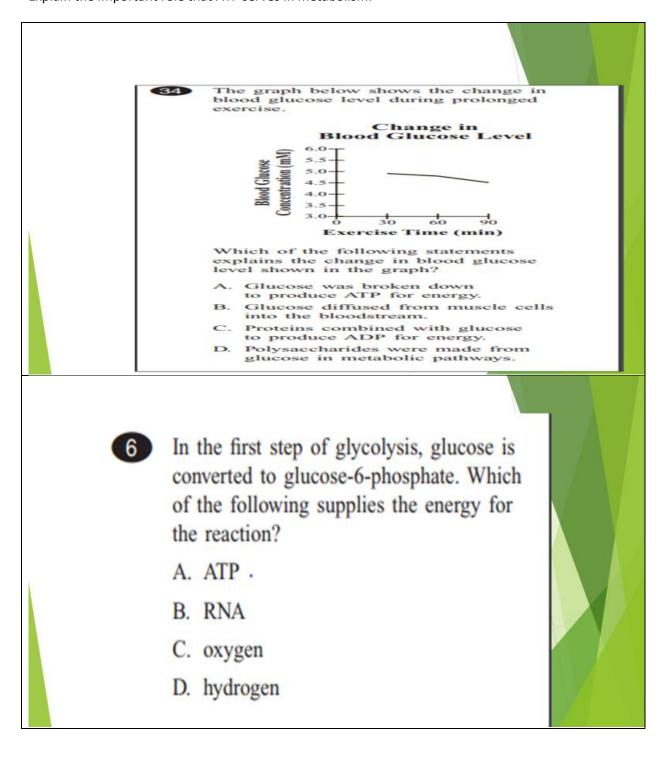
- A. chlorophyll
- B. glucose
- C. mitochondria
- D. ribosomes

Name:

**Cellular Transport** 

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Name:

## **Cellular Transport**

AIM : Identify the reactants, products, and basic purposes of photosynthesis and cellular respiration. \*Explain the interrelated nature of photosynthesis and cellular respiration

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26 Which of the following statements describes a difference between photosynthesis and cellular respiration in plants? A. Photosynthesis occurs only during the day, whereas cellular respiration occurs only at night. B. Photosynthesis involves only one reaction, whereas cellular respiration involves many steps. C. Photosynthesis occurs only in cells containing chlorophyll, but cellular respiration occurs in all cells. D. Photosynthesis converts light energy into chemical energy, but cellular respiration converts light energy into heat energy. 42 If a person is constantly feeling 25 In cells, aerobic respiration (cellular weak and has low energy levels, a doctor may test the blood for lactate. respiration in the presence of oxygen) is High lactate levels may indicate that the person's body is breaking down glucose by fermentation instead of by more efficient than anaerobic respiration aerobic respiration. The diagram below represents the process of fermentation. (cellular respiration in the absence Glucose of oxygen). This is because aerobic 2 ATP 2 Pyruvate respiration produces more of which of the following substances? 2 Lactate Based on the diagram, which of the following statements best explains why an increase in fermentation and a A. ATP decrease in aerobic respiration might cause a person to feel weak and have low energy levels? B. DNA A. Less ATP is being produced. B. Less pyruvate is being produced. C. glucose C. The amount of lactate available as a product is limited. D. The amount of glucose available as a D. protein reactant is limited.

Name
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## **Cellular Transport**

AIM : Identify the reactants, products, and basic purposes of photosynthesis and cellular respiration. \*Explain the interrelated nature of photosynthesis and cellular respiration \*Explain the important role that ATP serves in metabolism.

