

Biology Unit 4: Metabolism – Photosynthesis & Cellular Respiration

Essential Skills

- 5-1. Be able to name the reactants and products of **Aerobic Cellular Respiration**.
- 5-2. Be able to name the reactants and products of **Photosynthesis**.
- 5-3. Explain how the reactants and products of photosynthesis and respiration relate to each other.

Study Guides

Photosynthesis

1. Write the overall chemical equation for photosynthesis (label the reactants & the products)



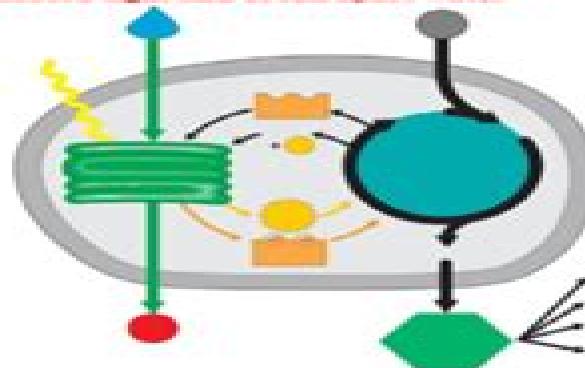
2. What is the role of the following terms in photosynthesis:

- Chloroplast: Site of Photosynthesis**
- Thylakoid membrane: Site of the Light reaction**
- Pigments (chlorophyll a, chlorophyll b, carotenoids): absorb light and break apart water**

3. Label the diagram on the right with the following terms:

3. Label the diagram on the right with the following icons:

- a. Calvin Cycle
- b. ATP
- c. NADPH
- d. Light
- e. Light Reactions
- f. O₂
- g. H₂O
- h. CO₂
- i. PGAL (Sugar)



4. Complete the following chart that summarizes the 2 steps of photosynthesis.

Reaction	Location	Reactants	Products
Light Reaction	Thylakoid	Sunlight + water	ATP, NADPH, Oxygen
Calvin Cycle (Dark Rxn)	Stroma	ATP + NADPH + Carbon Dioxide	PGAL

5. In Photosynthesis, what is water used for? What is CO_2 used for?

Water is split apart and the Hydrogen is used to help make glucose. The Carbon dioxide is used to bond with the Hydrogen to make water.

6. What is PGAL? How does this relate to Glucose? PGAL is a carbohydrate= ½ of a glucose

7. Why is the dark reaction described as a "Cycle"? How many CO_2 's are required to make 1 PGAL? How many CO_2 's are required for one glucose molecule? It is a cycle because it needs to pick up 3 CO_2 's and 6 Hydrogen for each PGAL. Therefore it needs to pick up 6 CO_2 's for one glucose

Gefährliche Ressourcen

8. Write the overall equation for Cellular Respiration (label the reactants and the products).



Study Guide Photosynthesis And Respiration

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