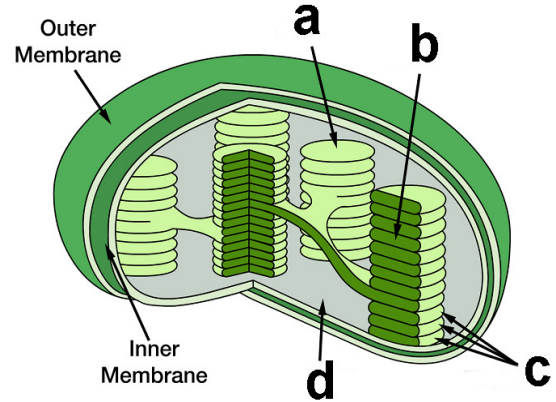


Worksheet: Photosynthesis & Cell Energy

BIOLOGY

Directions: Answer the following questions using your class notes and textbook.

1. What are the name of the structures seen in the chloroplast to the right?



- a.
- b.
- c.
- d.

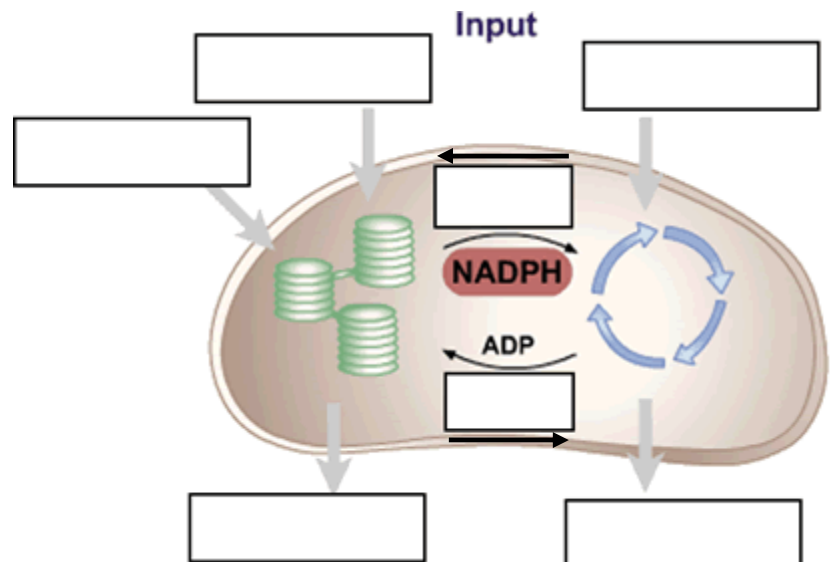
2. What is the equation for **photosynthesis**?

3. What are the names of the two main stages of photosynthesis?

4. What molecules enter the **light-dependent** reaction and what molecules are produced in the **light-dependent** reaction?

5. What molecules enter the **light-independent** reaction and what molecules are produced in the **light-independent** reaction?

6. Label the diagram to the right with the following: **water, oxygen, carbon dioxide, glucose, ATP, NADP, sunlight**



7. What is the name of the **cyclic** reaction taking place on the right side of the diagram?

8. Where does the energy of food originally come from?

9. Complete the table of types of organisms.

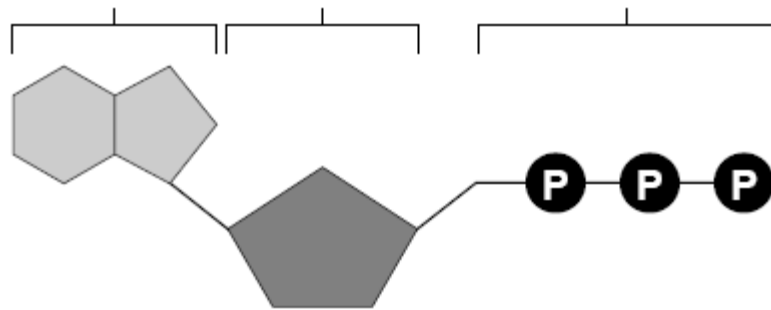
TYPES OF ORGANISMS

Type	Description	Examples
	Organisms that make their own food	
	Organisms that obtain energy from the food they eat	

10. What is one of the principal chemical compounds that living things use to store energy?

11. How is **ATP** different from **ADP**?

12. Label each part of the **ATP** molecule illustrated below.



13. When a cell has energy available, how can it store small amounts of that energy?

14. When is the energy stored in **ATP** released?

15. What are three factors that affect the **rate** at which photosynthesis occurs?