

PS Practice

Photosynthesis Rap Lyrics

Chorus

Photosynthesis, let's get into this
Discussion of sunlight, and transfer of
energy.
Photosynthesis, let's get into this
Process of chemical reactions and
synergy.

Verse I

Plants take water, sun, and CO₂,
to make glucose: the sugar that they use
for food
They also put oxygen into the air
So we can share, because oxygen is
everywhere
The energy transforms from solar to
chemical
All the time, everywhere, the process is
identical
In every plant, and every tree
Enabling all living things to be

Chorus

1. What organisms (living things) perform photosynthesis?
2. What are the things used (the reactants) in photosynthesis?
3. What are the things produced (the products) from photosynthesis?
4. In what cellular organelle does photosynthesis take place?
5. Which of the following best explains why plants can make their own food but animals cannot?
A) Being green B) Water
C) Sunlight D) Chloroplasts
6. True or False: Plants are heterotrophs.

To understand how photosynthesis begins, we can think about four necessary steps:

Step 1) Plants absorb _____ through their roots and _____ through small openings in the leaves.

Step 2) Water travels up the plant to the leaves.

Step 3) The water, carbon dioxide, and _____ meet in the _____ of leaf cells.

Step 4) Photosynthesis occurs and _____ and _____ are produced!

True or False: Write T or F next to each of the following statements.

1. Photosynthesis requires light.
2. Energy for photosynthesis comes from the sun.
3. Sugars provide energy for photosynthesis.
4. Photosynthesis occurs in the mitochondria.

Name:_____ Period:_____ Date:_____

5. Your cells perform photosynthesis.
6. Carbohydrates are created through photosynthesis.
7. Glucose is needed for photosynthesis to occur.
8. Glucose is an organic molecule.
9. Plants do not need water for photosynthesis.
10. Oxygen is required for photosynthesis.
11. Water must travel up from the plants' roots to the leaves before
photosynthesis can occur.
12. During photosynthesis, energy is created.

Below are three different ways to visualize the photosynthesis reaction.

Photosynthesis in pictures	Photosynthesis in words	Photosynthesis in symbols

1. What are the two reactants of photosynthesis? (what begins the reaction)

2. What are the products of photosynthesis? (what is formed)

3. What is the catalyst for photosynthesis? (what helps the reaction occur)

4. Do autotrophs, heterotrophs, or both perform photosynthesis?

5. Which of the following is NOT true about photosynthesis?

- A) Carbon Dioxide is a reactant
- B) Light is the catalyst
- C) Glucose is produced
- D) It requires oxygen

6. Scientists discovered a new organism that can make its own chemical energy through photosynthesis. They studied cells from the organism under a microscope. Which of the following would most likely **NOT** be found in these cells?

- A) Cell membrane B) Cell wall
- C) Chloroplast D) Small vacuole

Name:_____ Period:_____ Date:_____