



Science Virtual Learning

8th Grade Science

Photosynthesis

April 27, 2020



8th Grade Science
Lesson: April 27, 2020

Objective/Learning Target:
I can explain the process of photosynthesis.



Bellwork

1. Use [this Quizlet Set](#) to practice photosynthesis information (Click on link to go to site)
2. On a piece of paper, answer the question:
 - a. What is the equation for photosynthesis?
 - b. What does photosynthesis do for plants?
 - c. Can animals use photosynthesis?

Bellwork **Answers**

1. Use [this Quizlet Set](#) to practice photosynthesis information (Click on link to go to site)
2. On a piece of paper, answer the question:
 - a. What is the equation for photosynthesis?
 - i. $6\text{CO}_2 + 6\text{H}_2\text{O} \Rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
 - b. What does photosynthesis do for plants?
 - i. Using chloroplasts, photosynthesis creates energy from sunlight for plants to use.
 - c. Can animals use photosynthesis?
 - i. No (only plants)

Today Part 1

1. Watch [this video](#) to remember how photosynthesis works
2. Check out [this image](#) to see a picture version of the photosynthesis equation
3. Read [this short article](#) to remember some important things about photosynthesis



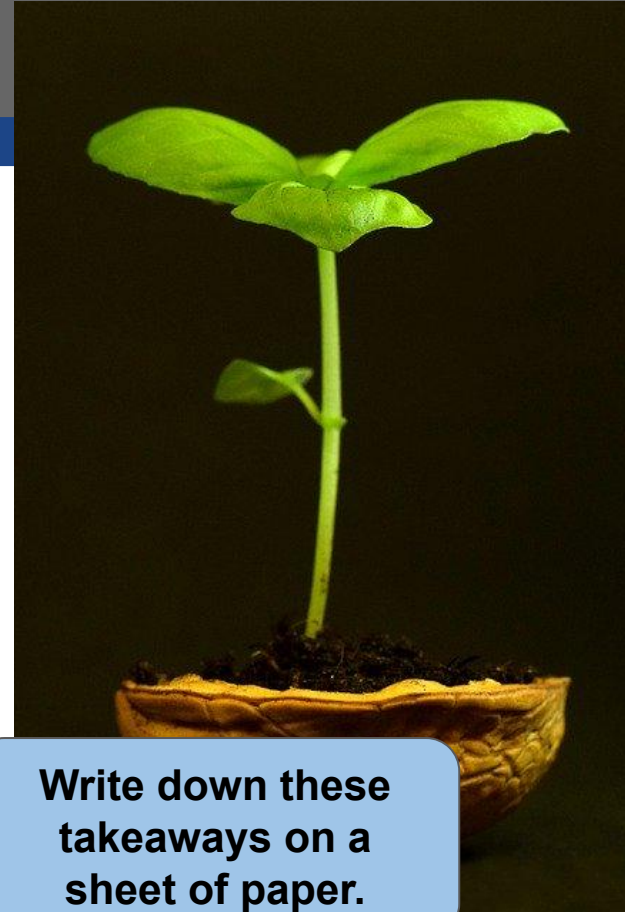
Today Part 1: Big Ideas

Photosynthesis Definition:

process by which green plants and some other organisms use sunlight to synthesize foods from carbon dioxide and water

Where photosynthesis happens:

The chloroplast organelle (usually in the leaves)



Write down these takeaways on a sheet of paper.

Today Part 1: Big Ideas

Why do plants need photosynthesis?

Plants need photosynthesis to create their energy to survive.

Why do animals need photosynthesis?

Animals need photosynthesis because they cannot create their own energy using sunlight. Animals have to eat all their energy sources (animals either eat plants or eat animals that eat plants)



Write down these takeaways on a sheet of paper.

Complete these practice activities on a sheet of paper.

2. Drawing Activity

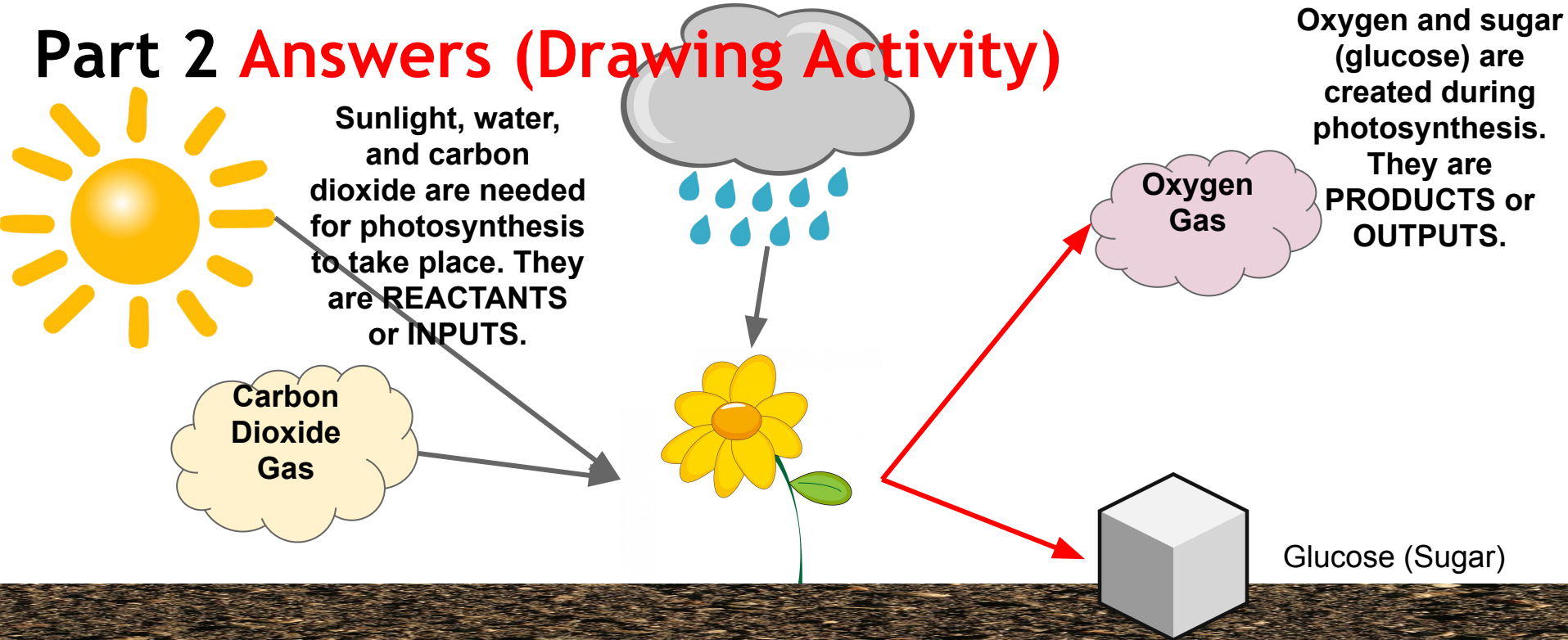
Today Part 2 - Practice

Start by drawing a flower on a piece of paper. Continue your drawing by adding the sun, soil and rain. Next, write carbon dioxide and draw an arrow towards the flower. On the opposite side, write the word oxygen and draw another arrow, but away from the flower this time. At the bottom of the plant, draw a sugar cube.

Now, write a short phrase or sentence that explains what role each of these things you drew plays in photosynthesis. (For example, water must be taken in from the rain for plants to do photosynthesis.) **(ANSWERS ON THE NEXT SLIDE)**

3. [Photosynthesis Worksheet](#) **Answers are on the second page of link)**

Part 2 Answers (Drawing Activity)



Check Your Learning:

1. Click on [this link](#) to practice your knowledge of photosynthesis.
 - a. **Answers are included on the link.**
2. Play [this Quizziz](#) at least 3 times to practice information about photosynthesis.

