

Student Exploration: Photosynthesis Lab

Vocabulary: carbon dioxide, chlorophyll, glucose, limiting factor, nanometer, photosynthesis, wavelength

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

- To survive, what gas do we need to breathe in?

In order to survive, we need to breathe in oxygen (O₂).

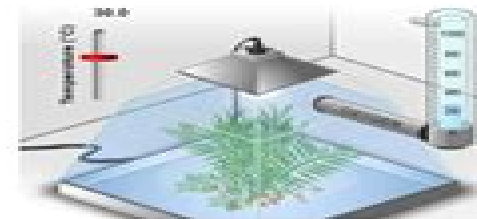
- Where is this gas produced?

At least half of the Earth's oxygen is produced from the ocean, from bacteria that photosynthesize. However, it is also produced in a process called photosynthesis where plants convert CO₂ into oxygen.

Gizmo Warm-up

During **photosynthesis**, plants use the energy of light to produce **glucose** (C₆H₁₂O₆) from **carbon dioxide** (CO₂) and water (H₂O). Glucose is a simple sugar that plants use for energy and as a building block for larger molecules.

A by-product of photosynthesis is oxygen. Plants use some of the oxygen they produce, but most of it is released. In the *Photosynthesis Lab* Gizmo, you can monitor the rate of photosynthesis by measuring oxygen production.



1. Observe the left pane closely. What do you think the bubbles are?

In my opinion, the bubbles are the oxygen that the plant is giving off.

2. Select the **BAR CHART** tab. On the graph, notice the **Oxygen production** bar. Move the **Light intensity** slider back and forth. How does light intensity affect oxygen production?

As the light intensity increases, the volume of oxygen production rises. At sufficiently high levels of light intensity, the rate of oxygen evolution remains constant. When the light intensity reaches 69%, the oxygen production remains the same. However, the oxygen production begins to slightly decrease when the light intensity reaches 91%.

3. Experiment with the vertical **Temperature** slider (upper left) and the **CO₂ level** slider.

- A. How does temperature affect oxygen production?

The higher the temperature, then typically the greater the rate of photosynthesis. Photosynthesis is a chemical reaction and the rate of most chemical reactions increase with temperature. However, for photosynthesis at temperatures above 25 °C the rate slows down.

- B. How does CO₂ level affect oxygen production?

Explore Learning Photosynthesis Lab Gizmo Answers

**Jennifer Wilhelm, Ronald
Wilhelm, Merryn Cole**



Explore Learning Photosynthesis Lab Gizmo Answers:

Creating Project-Based STEM Environments Jennifer Wilhelm, Ronald Wilhelm, Merryn Cole, 2019-02-05 This book models project based environments that are intentionally designed around the United States Common Core State Standards CCSS 2010 for Mathematics the Next Generation Science Standards NGSS Lead States 2013 for Science and the National Educational Technology Standards ISTE 2008 The primary purpose of this book is to reveal how middle school STEM classrooms can be purposefully designed for 21st Century learners and provide evidence regarding how situated learning experiences will result in more advanced learning This Project Based Instruction PBI resource illustrates how to design and implement interdisciplinary project based units based on the REAL Realistic Explorations in Astronomical Learning Unit 1 and CREATES Chemical Reactions Engineered to Address Thermal Energy Situations Unit 2 The content of the book details these two PBI units with authentic student work explanations and research behind each lesson including misconceptions students might hold regarding STEM content pre post research results of unit implementation with over 40 teachers and thousands of students In addition to these two units there are chapters describing how to design one s own research based PBI units incorporating teacher commentaries regarding strategies obstacles overcome and successes as they designed and implemented their PBI units for the first time after learning how to create PBI STEM Environments the REAL way

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web how to find distance between two points to find distance between points a x_1 y_1 and b x_2 y_2 we use formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ example find distance between points a 3 4 and b 1 3 solution in this example we have $x_1 = 3$ $y_1 = 4$ $x_2 = 1$ $y_2 = 3$ so we have

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web the midpoint between the two points x_1 y_1 and x_2 y_2 is the distance formula is derived from the pythagorean theorem the distance between the two points x_1 y_1 and x_2 y_2 is the midpoint formula this video give the formula for finding the midpoint of two points and do one simple example to find the midpoint show step by step

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web 1 answer write the formula $m = \frac{y_2 - y_1}{x_2 - x_1}$ substitute 2 3 for x_1 y_1 and 2 2 for x_2 y_2 $m = \frac{2 - 2}{3 - 2} = \frac{0}{1} = 0$ the midpoint of the line segment ab is $m(0, 1)$

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web this method can be used to determine the distance between any two points in a coordinate plane and is summarized in the distance formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ the point that is at the same distance from two points $a(x_1, y_1)$ and $b(x_2, y_2)$ on a line is called the midpoint you

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web distance and midpoint review quiz answer the following questions suggestion i midpoint 1 find the midpoint between a 0 1 and 8 3 b 11 4 and 6 4 c 17 7 and 7 6 2 answer the following the midpoint of ab is 3 3 plot points and use graphs to solutions if point a 2 4 what is point b b il distance

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web feb 14 2022 use the distance formula to find the distance between the points 5 3 and 7 2 solution write the distance formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ label the points $x_1, y_1 = 5, 3$ $x_2, y_2 = 7, 2$ and substitute $d = \sqrt{(7 - 5)^2 + (2 - 3)^2}$ simplify $d = \sqrt{2^2 + (-1)^2} = \sqrt{4 + 1} = \sqrt{5}$