

Answers for student exploration

photosynthesis lab gizmo

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What is the answer to the question what is the photosynthesis? Photosynthesis is the process by which plants use sunlight, water, and carbon dioxide to create oxygen and energy in the form of sugar.

How does oxygen production relate to the rate of photosynthesis in gizmos?
Answer and Explanation: Oxygen production and the rate of photosynthesis have a direct relationship. This means as the rate of photosynthesis increases, more oxygen will be produced also. This is because oxygen is created as a waste product from the light reactions in photosynthesis.

What is the limiting factor in photosynthesis gizmo? The major limiting factors for photosynthesis are light intensity, temperature, and carbon dioxide levels.

What color of light is best for photosynthesis in gizmos? If the brightness of a colour increases photosynthesis, then the green or yellow light will maximize the rate of photosynthesis because they are the brightest colours.

What is photosynthesis with equation answer? Photosynthesis is the process that plants use to convert light energy into sugar molecules. The equation for photosynthesis is: carbon dioxide + water + sunlight → oxygen and glucose. $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{sunlight} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$.

Is photosynthesis a very short answer? Photosynthesis is the process by which plants and other things make food. It is an endothermic (takes in heat) chemical process that uses sunlight to turn carbon dioxide into sugars that the cell can use as energy. As well as plants, many kinds of algae, protists and bacteria use it to get

food.

What are the bubbles in photosynthesis gizmo? The bubbles represent the oxygen that the plants are giving off 2. Select the BAR CHART tab. On the graph, notice the Oxygen production bar. Move the Light intensity slider back and forth.

What can be used to measure the rate of photosynthesis gizmo? Photosynthesis Lab Oxygen production is used to measure the rate of photosynthesis. Light intensity, carbon dioxide levels, temperature, and wavelength of light can all be varied.

What are the inputs and outputs of photosynthesis gizmo?

What color of light is the best for photosynthesis? In the blue and red light spectrums, photosynthesis is most efficient: The blue and red light spectrum is most efficient in photosynthesis because both photosystems (PS I and PS II) absorb light with wavelengths in the red range (680 and 700 nm, respectively).

Which color was absorbed best by the plant? The red color between 570 and 700 nm is the most absorbed, with a major absorption peak at 660 nm for chlorophyll A and 645 nm for chlorophyll B. Blue light between 400 and 470 nm and green light between 470 and 570 nm are also very strongly absorbed.

Why does temperature affect photosynthesis? At low temperatures, the rate of photosynthesis is limited by the number of collisions between enzymes and substrate. As temperature increases the number of collisions increases, therefore the rate of photosynthesis increases. However, at high temperatures, enzymes are denatured.

What factors influence the rate of photosynthesis? Photosynthesis can be affected by three major variables, light intensity, carbon dioxide concentration, and temperature.

How does oxygen production relate to the rate of photosynthesis? Expert-Verified Answer. So, more photosynthesis means more oxygen. In other words, the higher the rate of photosynthesis is, the higher is oxygen production.

What are the ideal conditions for photosynthesis in the gizmo? Expert-Verified Answer In Gizmo experiment, when both the intensity of light and carbon dioxide level is high, the rate of photosynthesis will maximize.

Is water released during photosynthesis? Photosynthesis produces water as a byproduct. During photosynthesis, plants take carbon dioxide (CO_2), and water (H_2O) from the air and soil. In the plant cell, carbon dioxide is reduced, which results in the gain of electrons, whereas water is oxidized, which results in the loss of electrons.

What are the two stages of photosynthesis?

Is photosynthesis endothermic or exothermic? Photosynthesis is an endothermic. reaction. This means it cannot occur without energy (from the Sun). The light required is absorbed by a green pigment.

What is photosynthesis in 5 words? photosynthesis, the process by which green plants and certain other organisms transform light energy into chemical energy. During photosynthesis in green plants, light energy is captured and used to convert water, carbon dioxide, and minerals into oxygen and energy-rich organic compounds.

What are the two products of photosynthesis? The products of photosynthesis are glucose and oxygen. Oxygen passes out of the leaves through the stomata.

What is the equation for photosynthesis? The process of photosynthesis is commonly written as: $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$. This means that the reactants, six carbon dioxide molecules and six water molecules, are converted by light energy captured by chlorophyll (implied by the arrow) into a sugar molecule and six oxygen molecules, the products.

What is the simple definition of photosynthesis? (FOH-toh-SIN-theh-sis) A chemical process that occurs in plants, algae, and some types of bacteria, when they are exposed to sunlight. During photosynthesis, water and carbon dioxide combine to form carbohydrates (sugars) and give off oxygen. Photosynthesis is needed for animal and plant life.

What is a question about photosynthesis? Question: What is the main source of energy for photosynthesis? Answer: Photosynthesis relies on light energy from the sun to drive the series of chemical reactions between carbon dioxide and water, ultimately producing glucose and oxygen.

What is photosynthesis A level answer? ?What is Photosynthesis? Photosynthesis is the process by which plants, algae, and some bacteria convert light energy from the sun into chemical energy in the form of glucose, which is a type of sugar. This process also releases oxygen gas into the air. ?Why is Photosynthesis Important?

What is photosynthesis for kids?

Is 3.5 a good GRE essay score? We've divided the table into different colors based on whether the GRE analytical writing scores would be considered low (0.0-3.0), average (3.5-4.0), high (4.5-5.0), or excellent (5.5-6.0). Quick side note: we've created the world's leading online GRE prep program that adapts to you and your strengths and weaknesses.

Are GRE essay topics repeated? Q. Are essay topics repeated in GRE? A. Similarly, there may be some arguments that are repeated across prompts in the GRE Argument pool, but they'll each be followed by a different task, so it's important to read the entire essay prompt (including the task) before beginning your analysis.

Is a 4 on GRE essay good? A 4.0, 4.5 or 5.0 is a good GRE writing score, and a 5.5 or 6.0 is exceptionally good. Even a slightly lower score might not seriously affect your applications, as long as you can demonstrate your writing skills in another way.

How can I improve my GRE essay?

Is 312 a competitive GRE score? Is a GRE Score Between 310 and 320 Good Enough? Any GRE score above 310+ is considered to be an exceptional score, however, what the colleges or universities consider while looking at your scorecard are the verbal and quant section scores and percentile. The sectional scores and percentile vary.

Is 295 a bad GRE score? A GRE score average of 290 to 300 can take you to a quality university in the USA, which would surely help you take off your career ladder. Not just that, there are a variety of courses and MS programs that you can choose from.

How many mistakes are allowed in GRE? For example, say you have a score goal of 160 for both the Verbal and Quantitative sections, for a total GRE score of 320. You could conceivably have 2-3 wrong answers in each Quant section and 4-5 wrong answers in each Verbal section and still achieve your Q160/V160 goal.

Do colleges care about GRE writing? It doesn't matter that most programs aren't essay-focused if a program you are applying to is—that's the one that matters to you and your future. Some schools/programs care that you reach a threshold in two out of three GRE categories.

What is the average score in the GRE essay? Data Summary. The average GRE scores in 2022-2023 were about 151 (151.3) for verbal reasoning and 157 for quantitative reasoning. The average analytical writing score was 3.4, but this section is not included in your total score.

What is a 90% on the GRE?

Is 310 a good GRE score for PhD? Is the GRE Score Between 300-310 Good Enough? The GRE scores for the verbal and quantitative sections range from 130 to 170. On a scale from 0.0 to 6.0, the GRE's Analytical Writing section is graded. Any applicant receiving a score higher than 300 is typically accepted into a reputable college.

What GRE score is needed for Harvard?

What essay is on the GRE 2024? The "Analyze an Issue" task assesses your ability to think critically about a topic of general interest and to clearly express your thoughts about it in writing.

How to begin a GRE essay? Start your essay by clearly restating the issue you were assigned, followed by a sentence stating your position on that assignment—that is, your thesis. Next, introduce the specific reasons or examples you plan to provide

in each of the next three paragraphs, one sentence for each of the forthcoming paragraphs.

What are strong topics?

What is a 75% on the GRE?

Is 300 a bad GRE score? Is 300 a Good GRE Score? Yes, 300 is a good score and above average on the GRE. Scores like 300 and above increase your chances of getting into highly reputable institutions and programs.

Is 292 a good GRE score? Generally, a 75th percentile is a pretty good GRE score, and a 90th percentile is an excellent one. Thus, we can say that a score of 318 and above is good, whereas a score of 329 is an excellent one. A score of 300+ is considered average, and a 292 score is considered below average.

Is GRE harder than SAT? Comparing the two exams is a bit like comparing apples to oranges. There is another key reason not to get too caught up in the fact that the GRE is generally considered more difficult than the SAT: you won't be in high school anymore when you take the GRE.

Is 297 a high GRE score? No, 297 is not considered a good GRE score for graduate school. A GRE score above 310 (verbal reasoning scores of 155 – 170, quantitative reasoning scores of 155 – 170, and analytical writing scores of 3.5) is considered good for graduate school.

What is a good unofficial GRE score? Average GRE Score The median (or 50th percentile) Verbal Reasoning score equates to a scaled score of 151, and the median Quantitative Reasoning score is approximately a 154 scaled score. So, if your only goal is to score a little higher than average, aim for a total score above 306.

Is 3 a good score in analytical writing? Score 3 Limited A 3 response demonstrates some competence in addressing the specific task directions, in analyzing the issue and in conveying meaning, but is obviously flawed.

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Is the AWA score of 4 good? A Score of 4 Is Adequate—A competent critique of the argument, demonstrating adequate control of the elements of effective writing, and displaying the following characteristics: Identifies and capably analyzes important features of the argument.

What is the minimum essay score for GRE?

What is the field guide for birds of Thailand? About this book This comprehensive field guide, written specifically for Thailand, has meticulous, original colour artworks and maps for over 950 species. With details of identification, voice, breeding, status, habitat and distribution, this unique guide is an indispensable reference for birders visiting the region.

How many bird species are there in Southeast Asia? This comprehensive field guide to the birds of South-East Asia covers all of the 1 327 species recorded in the region and each has been fully illustrated.

Are there parrots in Southeast Asia? The latest study reviews trade in three Southeast Asian parrot species (Palm Cockatoo *Probosciger aterrimus*, Yellow-crested Cockatoo *Cacatua sulphurea* and Eclectus Parrot *Eclectus roratus*) over which concerns about captive breeding have been raised in discussion with relevant experts.

How many bird species are in Thailand? The birds of Thailand included 1101 species as of 2022.

How do I choose a bird field guide? Are the birds easy to find? Look for a field guide with drawings rather than photographs. Artists portray birds in similar poses, using their experience and knowledge to make it easier for you to key in on the important field marks.

What is Thailand's national bird? The national bird of Thailand is the *Lophura diardi*. This bird also goes by the names Siamese fireback and Diard's fireback. It is a large pheasant species found throughout Southeast Asia. It has dark gray and black feathers with large red skin patches around the eyes and red legs.

Which country has the most birds in the world?

What is the largest bird in Asia? Great Bustard (*Otis tarda*) The Great Bustard is the first bird on this list that can fly. Found in Europe and Asia, the Great Bustard is the world's heaviest flying bird. Males can weigh up to 46 pounds (21 kilograms) and have a wingspan of up to 8 feet (2.4 meters).

What is the most common bird in Asia?

Are there crows in Southeast Asia? Distribution and habitat The range of this species is extensive and stretches from the northeastern Asian seaboard to Afghanistan and eastern Iran in the west, through South and Southeast Asia, to the Lesser Sundas and Cambodia in the southeast.

Which is the largest breeding area for birds in Asia? Keoladeo National Park is the largest breeding area for birds in Asia. Located in Bharatpur, Rajasthan, India, this national park is a haven for avian species, attracting thousands of migratory birds every year.

Which country has the highest number of parrots? Brazil has the most parrots-70 + species.

How are birds classified in field guides? Most field guides and checklists present birds in taxonomic order, which represents our best understanding of the evolutionary relationships between bird families.

What is the most common bird in Thailand? White-vented Myna is one of the most common species in Thailand and will most certainly be encountered by visiting birdwatchers before getting out of the car. This species is almost as common as Common Myna, indeed, in well-watered open-country outside of urban areas it is probably more common.

What is the field guide to extinct birds? A Field Guide to Extinct Birds is a letterpress printed collection of extinct birds from around the world, made by hand by me, Sarah Nicholls. It is a consideration of the history of field guides, and the unique qualities that print brings to the field guide.

What guides migratory birds? The sun compass plays a role in homing and may be used by birds that migrate during the day. Many songbird species, however, migrate at night. For many years scientist suspected that birds use the stars for navigation.

What are some criticisms of modernization theory? The theory has also been criticised empirically, as modernization theorists ignore external sources of change in societies. The binary between traditional and modern is unhelpful, as the two are linked and often interdependent, and "modernization" does not come as a whole.

What are the limitations of the modernisation theory? Post-development thinkers believe that the primary weakness of modernisation theory is assuming that outside forces are needed to help a country develop. For them, this negatively affects local practices, initiatives, and beliefs; and is a demeaning approach toward local populations.

What is a fatal flaw of modernization theory? Both modernization theory and institutional capacity approaches are fatally flawed albeit for different reasons. Modernization theory cannot explain how economic growth begins and institutional capacity approaches cannot explain why a powerful state would not be self-serving.

Which of the following is a critique of modernization theory? Some criticisms of modernization theory are that some societies may develop along different paths than others, rather than representing different stages of development; modernization theory may support practices seen as harmful to poorer countries.

What are three negative impact of modernization? Environmental degradation: The rapid industrialization and urbanization that come with modernization have led to increased pollution, deforestation, and climate change.

What are some of the disadvantages of modernization? Disadvantages of Modernization: While it may bring prosperity to some segments of society, marginalized groups and disadvantaged regions may be left behind, leading to a widening wealth gap. Unequal access to resources, education, and opportunities can further deepen social divisions.

What are the disadvantages of modern theory? Cons of Modern Management Theory The modern theory of management involves sophisticated mathematical and statistical techniques, which can be complex and time-consuming for managers to apply. It may require specialized knowledge and training, making it challenging for some managers to implement effectively.

What are the problems of modernization? Modernization brings about various social problems. These include conflicts between traditional and modern values, such as seen in Cooper's *The Prairie*, where issues like monopoly, cultural conflict, poverty, and social injustice arise due to modernization's negative impacts [4].

What is the bias of modernization theory? Modernization Theory Critics point out the inherent ethnocentric bias of this theory. It supposes all countries have the same resources and are capable of following the same path. In addition, it assumes that the goal of all countries is to be as "developed" as possible.

What is the losers of modernization theory? The modernization losers theory has been seen as a combination of two theories (a) the relative deprivation theory and (b) the social breakdown theory. Betz suggests that the move from an industrial to post-industrial economy is one aspect of this 'modernization'.

What is a major critique of modernization theory quizlet? Criticisms: 1. Modernization has simply not occurred in many poor countries. 2. Modernization theory fails to recognize how rich nations often block the path for poor countries.

Is modernization theory valid today? Modernization theory is dismissed by many as a no longer viable theory of social change (Wallerstein 1976, Alexander 1995).

What is the main criticism of modernization theory? Cultural imperialism: The modernization theory is accused of promoting cultural imperialism by emphasizing Western values and norms as the ideal path to development. Critics argue that this undermines local cultures and traditions, leading to cultural homogenization and loss of cultural diversity.

What are the limitations of modernization theory? The disadvantages of modernization theory are that it may not fully see the differences among societies, and it may harm poorer societies. One can argue that not all societies are developing

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along the same path.

Why did modernisation theory fail? The modernisation theory was premised on flawed assumptions that were Eurocentric, Western, and which caused the post-colonial African leaders to neglect or even appropriate the bureaucracy in their countries, while not recognising its crucial role in growth and development in other parts of the world (Mabogunje 2000 ...

What are the disadvantages of modernism? However, there are also drawbacks to the modernist paradigm. It can neglect convention-based arts and craft, limiting their artistic and social role [??]. Additionally, modernism's focus on individualism and disregard for the cultural environment can result in a lack of relevance to contemporary issues and crises [??].

What are the three key assumptions of the modernization theory? The main tenets of modernization theory include the belief that economic development, cultural change, and political change are interconnected and follow predictable patterns during the process of industrialization.

What do you think is the biggest problem since modernization? This shift has enabled massive economic growth, widespread improvements in healthcare, education, and overall quality of life. However, the biggest problem since modernization is arguably the increased inequality between wealthy and poor nations, along with environmental degradation.

What is the paradox of modernization? This study has brought attention to the paradox of modernity, in which certain elements of tradition tend to survive the forces of modernisation and may even, as in this case, be amplified in society.

What is the opposite of modernization theory? So, modernization theory sees capitalism as a creative force, causing growth and progress. Dependency sees international capitalism as the ruin of the Third World . Modernization sees rich countries as helpers of poor countries; dependency sees them as the main obstacle to the well-being of the poorer countries.

Which result of modernization may be a negative one? Final answer: One negative result of modernization is the growing access to new ideas, which can lead

to cultural erosion and the loss of traditional values.

What critics of modernization theory maintain that it? Modernization Theory Critics point out the inherent ethnocentric bias of this theory. It supposes all countries have the same resources and are capable of following the same path. In addition, it assumes that the goal of all countries is to be as “developed” as possible.

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What are the criticisms of Rostow's modernisation theory? Rostow's model is criticized for ethnocentric views, being too linear, and having overlapping stages. Many note that it focuses only on the Westernized path to economic development. Critics state that many nations do not follow the steps Rostow lists, while others simply have a different goal than mass production.

What is a major critique of modernization theory quizlet? Criticisms: 1. Modernization has simply not occurred in many poor countries. 2. Modernization theory fails to recognize how rich nations often block the path for poor countries.

[gre essay topics solutions](#), [field guide to the birds of thailand and southeast asia](#), [modernization theory criticism](#)

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