

# Advantages and disadvantages on photosynthesis measurement

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**What are the advantages and disadvantages of photosynthesis?** There is no disadvantages of photosynthesis because it is a natural process which helps plants to prepare their food but artificial photosynthesis have a disadvantages that the material used in it often get corrode as the hydrogen catalyst used in this process is highly sensitive to end product oxygen.

**Why is measuring photosynthesis important?** Measuring photosynthesis via the production of carbohydrates Increase in mass of the disc is an indication of the extra mass that has been stored in the leaf. This is very simple to do and enables you to investigate plants growing in the wild.

**What is the advantage of using a model to describe photosynthesis?** The advantage of using a model to describe photosynthesis is that it helps to simplify and visualize the complex process in a way that is easier to understand. A model allows scientists and students to focus on the key components and mechanisms of photosynthesis, without getting overwhelmed by the intricacies.

**What is the advantage of photosynthetic?** Photosynthesis creates all of the energy that fuels living organisms. Animals that eat plants acquire their energy from the stored sugar in plants, and animals that eat those animals obtain that same energy. Thus, all levels of a food web are still fueled by the energy developed by photosynthetic organisms.

**What are 3 limitations of photosynthesis?** The main factors affecting rate of photosynthesis are light intensity, carbon dioxide concentration and temperature.

**What are the negative effects of photosynthesis?** When plants absorb energy from sunlight to photosynthesize, the "extra" energy reacts with oxygen in plant cells to produce harmful reactive oxygen species (ROS). These molecules break down important structures across the plant, and in the process they also produce an extremely toxic reactive carbonyl species (RCS).

**How can you measure photosynthesis more accurately?** Commercial Instruments. Gas exchange is used most often as the way to measure photosynthesis, and there are a few different techniques. CO<sub>2</sub> measurement uses infrared light, while O<sub>2</sub> measurement requires electrochemical sensors. Infrared Gas Analyzer: CO<sub>2</sub> absorbs infrared light.

**What are the disadvantages of using dry mass to measure growth?** Disadvantage : The organism will be killed. Growth of the same organism cannot be measured continuously and large number of organisms are needed. Finally, time consuming.

**What can be used to measure photosynthesis?** The photosynthesis system uses a set of IRGAs (infrared gas analyzers) to compare the levels of CO<sub>2</sub> between a reference chamber with a known amount of CO<sub>2</sub> and a sample chamber that mixes with the gases from the chamber containing a leaf.

**What are the disadvantages of artificial photosynthesis?** Current systems are not as efficient as natural photosynthesis or other renewable energy technologies like solar panels. The conversion of sunlight into chemical energy is still relatively inefficient, leading to lower overall energy yields compared to more established methods of energy production.

**What are the five importances of photosynthesis?**

**What are the advantages and disadvantages of cellular respiration?** Answer and Explanation: The advantage of aerobic respiration is that it creates huge amounts of ATP molecules that can be used as fuel to drive various biochemical pathways in the body. The disadvantage of aerobic respiration is that it requires large amounts of oxygen, and also the process is very slow.

**Is photosynthesis useful or harmful?** Photosynthesis is essential to all life on earth; both plants and animals depend on it. It is the only biological process that can capture energy that originates in outer space (sunlight) and convert it into chemical compounds (carbohydrates) that every organism uses to power its metabolism.

**Why is it important to study photosynthesis?** Photosynthesis is the most important biochemical process on Earth. Most living beings depend on it directly or indirectly. Knowledge about photosynthesis enables us to understand how the world functions as an ecosystem and how photosynthesis acts as a bridge between the non-living and living worlds.

**How is photosynthesis so efficient?** There, cells convert the energy into electrons, which eventually power the production of sugar molecules. This transfer of energy through the light-harvesting complex occurs with extremely high efficiency: Nearly every photon of light absorbed generates an electron, a phenomenon known as near-unity quantum efficiency.

**What are the advantages of photosynthesis?** Directly or indirectly, photosynthesis fills all of our food requirements and many of our needs for fiber and building materials. The energy stored in petroleum, natural gas and coal all came from the sun via photosynthesis, as does the energy in firewood, which is a major fuel in many parts of the world.

**What are the limiting factors of photosynthesis test?**

**What are two major limiting factors of photosynthesis?** Light intensity, carbon dioxide concentration and temperature are limiting factors of photosynthesis. They all affect the rate of the photosynthetic reaction, but in different ways.

**What is the disadvantage of photosynthesis?** Despite its beauty and importance, a disadvantage of natural photosynthesis is the low efficiency with which light energy is used to produce organic compounds. For most conventional plants, this is less than 1%.

**What is the negative feedback of photosynthesis?** Negative feedback regulation is responsible for the non-linear modulation of photosynthetic activity in plants and cyanobacteria exposed to a dynamic light environment.

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**What is negative photosynthesis?** When the lights get turned off, photosynthesis stops, and cellular respiration continues. Cellular respiration actually uses oxygen. With cellular respiration consuming oxygen and no photosynthesis to replace it, it will look as though there is a negative rate of photosynthesis.

**Can a spectrophotometer measure photosynthesis?** Answer and Explanation: A spectrophotometer measures photosynthesis through measuring the increment in light transmittance for a specified duration. In this light, the measurement collected will indicate the level of photosynthesis.

**How is the rate of photosynthesis measured by measuring?** By actually measuring the volume of oxygen gas produced by a plant, you can work out the rate at which photosynthesis is happening. The more oxygen given off, the higher (or faster) the rate of photosynthesis.

**What limits the rate of photosynthesis?** Limiting factors are environmental conditions or factors that restrict the rate of photosynthesis. These factors can include light intensity, carbon dioxide concentration, temperature, and water availability.

**What are the disadvantages of measuring?**

**What are the advantages of measuring dry mass?** Dry weight will provide a precise measurement of biomass eliminating fluctuations caused by water content. Plant total biomass can be directly related to our plant performance as a response to photosynthetic capacity, nutrition, environmental conditions, and more.

**Why is dry mass a more reliable measurement than fresh mass?** Biomass in terms of fresh weight shows variations in weight due to seasonal moisture differences whereas the biomass in terms of dry weight remains unaffected by such seasonal moisture variations. Therefore the measurement of biomass in terms of dry weight is considered more accurate than fresh weight.

**What are the positive effects of photosynthesis?** Humans depend on photosynthesis to make the food they consume, as a source of energy to produce heat, light, and electricity, on a daily basis. Additionally, autotrophs are producers in almost all food chains, therefore this mechanism is essential for humans as well.

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**What are the advantages and disadvantages of plants?** For plants, the advantages included greater access to sunlight, less competition for resources, and new habitats for reproduction and dispersal. Disadvantages faced by plants included water scarcity, structural challenges, and the risk of desiccation.

**What are the advantages and disadvantages of photorespiration?** This method is inefficient and does not result in the production of ATP or NADPH. The possible advantages of photorespiration in plants include its support of plant immune defences and assistance in preserving the redox balance in cells.

**What are the disadvantages of artificial photosynthesis?** Current systems are not as efficient as natural photosynthesis or other renewable energy technologies like solar panels. The conversion of sunlight into chemical energy is still relatively inefficient, leading to lower overall energy yields compared to more established methods of energy production.

**What are the 5 importances of photosynthesis?** The rate of photosynthesis influence the productivity of agricultural crops. It ensures that all living species have access to oxygen in the atmosphere. It keeps the ecosystem's oxygen and carbon dioxide levels in check. Plants are the source of fossil fuels.

**Is photosynthesis positive or negative feedback?** The fact that the initial perturbation is reduced means that it is a negative feedback. An increase in photosynthesis yields a decrease in CO<sub>2</sub> yields a decrease in photosynthesis. The feedback is again negative.

**Is photosynthesis useful or harmful?** Photosynthesis is essential to all life on earth; both plants and animals depend on it. It is the only biological process that can capture energy that originates in outer space (sunlight) and convert it into chemical compounds (carbohydrates) that every organism uses to power its metabolism.

**What are the disadvantages of plant energy?** Biomass energy at a glance The main disadvantages of biomass energy are that it is expensive, requires a lot of space, it still releases greenhouse gases, it can have a negative impact on the surrounding environment, and it is inefficient in terms of how much energy it takes to create electricity.

**What are the advantages and disadvantages of plant reproduction?** The advantages of asexual reproduction are that it is faster, more energy-efficient, and does not require the combining of sex cells from two parents. Disadvantages of asexual reproduction in plants include populations with low genetic diversity, compounding genetic mutations, and increased resource competition.

**What are the advantages and disadvantages of power plant?** Power plants provide reliable electricity but pose environmental and health risks. Advantages include consistent power supply and economic benefits, while disadvantages include pollution, resource depletion, and potential accidents.

**What are the disadvantages of photosynthesis?** Despite its beauty and importance, a disadvantage of natural photosynthesis is the low efficiency with which light energy is used to produce organic compounds. For most conventional plants, this is less than 1%.

**What are the negative effects of photorespiration?** For a variety of reasons, it reduces the efficiency of photosynthesis. Carbon is oxidised, as opposed to photosynthesis, which converts carbon to glucose. It is now critical to re-synthesize ribulose biphosphate and reduce phosphoglycolate production. It is a wasteful process, as it does not produce ATP or NADPH.

**What are the advantages and disadvantages of C3 photosynthesis?** C3 plants are limited by carbon dioxide and may benefit from increasing levels of atmospheric carbon dioxide resulting from the climate crisis. However, this benefit may be offset by a simultaneous increase in temperature that may cause stomatal stress.

**What are the advantages of photosynthesis?** Directly or indirectly, photosynthesis fills all of our food requirements and many of our needs for fiber and building materials. The energy stored in petroleum, natural gas and coal all came from the sun via photosynthesis, as does the energy in firewood, which is a major fuel in many parts of the world.

**What are the limitations of the photosynthesis experiment?**

**What are the advantages of artificial photosynthesis?** The main benefit of artificial photosynthesis is to produce a hydrogen fuel that will be energy efficient and

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carbon neutral. It will be a renewable source of energy which can be used for transportation. It will not add any green house gases into the atmosphere.

**What material is a coconut grater made of?** HIGH-QUALITY CONSTRUCTION: Wonderchef coconut scraper is constructed using stainless steel, ensuring its longevity and resistance to wear and tear.

**How do you grate a coconut with a grater?** To grate coconut, you need to crack it open first, then use a box grater or a food processor to grate it. Finally, you can dry your coconut flakes out using an oven or dehydrator to achieve the same texture as the grated coconut from the store.

**What is the best material for a grater?** The Microplane 4-Sided Stainless Steel Professional Box Grater is our favorite grater because it produced even shreds of hard cheese, soft cheese, and citrus, the latter of which was hard to achieve with other grater types we tested.

**What is a grater made of?** A grater is a kitchen utensil that is usually made from metal (and sometimes ceramic or even wood), with sharp perforations or protrusions used to shred food.

**What is the difference between grated coconut and shredded coconut?** Dried Coconut: Desiccated, Shaved, Flaked and Shredded This is the best option for baking into slices, cakes and biscuits. On the other hand, shredded coconut is a little more coarsely grated, with longer strands, and a bit of a higher moisture content.

**Can I grate coconut in a food processor?** Break up the dried coconut into smaller pieces then put in a food processor. Blitz it in bursts until its the texture you are looking for. Done.

**Is grated coconut healthy?** Coconut meat is the white flesh of coconuts and is edible fresh or dried. Rich in fiber and MCTs, it may offer a number of benefits, including improved heart health, weight loss, and digestion. Yet, it's high in calories and saturated fat, so you should eat it in moderation.

**What is the most expensive grater?** Mac Pro (2023) - \$6,999 World's most expensive cheese grater.

**What is a Japanese grater?** Oroshigane. More Information. Lovely little Japanese Oroshi grater for wasabi (horseradish) daikon (radish) ginger, nutmeg etc. It turns food to to a fine paste rather than actually shredding it and is great for a ginger tea.

**What is the difference between grater and shredder?** Grating looks like choppy short fragments while shredding looks like long strips; however, both use the same kitchen equipment/tools. So no worries, no need to buy another kitchen appliance/utensil.

**How do you improvise a grater?** Simple way to make grater from tin can - Take a tin can and drill holes in it. Fold holes and that's all. Grater is ready.

**What are the risks of using a grater?** Verb She risked her life to save her children. He risked all his money on starting his own business. He risked breaking his neck. She's risking being considered too sentimental.

**What is a Korean grater?** The Korean grater is a kitchen tool for shredding various ingredients. The combination of a wooden base and a reliable stainless steel blade ensures efficiency and durability. Easy to use, the grater quickly and effortlessly transforms carrots into fine shreds, ready to be mixed with your favorite ingredients.

**What is grated coconut called?** 3 Desiccated coconut. Desiccated coconut is the grated and dehydrated coconut meat, which is mainly used in the bakery and confectionery industries.

**Why does coconut turn yellow?** Naturally occurring sugar and protein in coconut are responsible for the number one spoilage factor in this product: yellowing.

**How to know if grated coconut is bad?** Other signs of old dried coconut is when it is shrivelled and becomes brittle. It can also turn from white to yellow. Rancid: As coconut has a higher oil content it can go rancid easily, you will notice a sour off taste, to prevent this keep your shredded coconut in the freezer.

**How do you extract coconut easily?**

**What is a coconut shredder?** A Coconut Shredder is used for the Fresh Coconuts. We manufacture and export complete Coconut Shredder and Coconut Shredding



Machines which are best for industrial uses and multiple applications.

### **How do you make grated coconut last longer?**

**When not to eat coconut?** Allergy to coconut oil or related plants: Coconut might cause serious allergic reactions in people who are allergic to coconut oil, coconut palm pollen, components of coconut, or other members of the Arecaceae plant family. High cholesterol: There is concern that eating coconuts might increase cholesterol levels.

**What are the disadvantages of grated coconut?** However, there are certain disadvantages when taken in excess amounts. High-Calorie Content: Coconut meat is calorie-dense due to its fat content. Overconsumption can lead to weight gain if not accounted for in one's diet.

**Can too much coconut be bad for you?** Are There Any Drawbacks to Eating Coconut? While coconuts are packed full of healthy benefits, like anything else, eating too much can have negative effects. Due to higher levels of saturated fat, eating large amounts of coconut can increase cholesterol.

**What are coconut shavings made of?** Each coconut is de-husked, and then de-pared, leaving only the white coconut meat. The meat is fed to a conveyor belt and shredded. The shredded meat is then oven dried to reduce the moisture content to a predetermined level.

**What material is coconut shell?** The chemical composition of the coconut shell is similar to wood. It contains 33.61% cellulose, 36.51% lignin, 29.27% and ash at 0.61%. In developing countries, where abundant coconut shell waste is discharged, these wastes can be used as potential material or replacement material in the construction industry.

**What is coconut fibers material?** Coir is the fibrous material found between the hard, internal shell and the outer coat of a coconut. Other uses of brown coir (made from ripe coconut) are in upholstery padding, sacking and horticulture. White coir, harvested from unripe coconuts, is used for making finer brushes, string, rope and fishing nets.

**What is shredded coconut made of?** Shredded coconut is “grated” bits of coconut, usually in long thin strips/strands. They are then dried out, but still, retain more moisture than desiccated coconut.

**How do I teach myself art history?** Reading a book or some online articles and essays, looking through virtual gallery collections and exhibitions, and thinking about what is you'd like to learn through studying Art History are all good starting points.

**Is intro to art history easy?** Some found it enjoyable and relatively easy due to their passion for both art and history, while others found it more challenging, especially when dealing with the depth of analysis and memorization required.

**What are the basics of art history?** art history, historical study of the visual arts, being concerned with identifying, classifying, describing, evaluating, interpreting, and understanding the art products and historic development of the fields of painting, sculpture, architecture, the decorative arts, drawing, printmaking, photography, interior design, ...

**Why is art history difficult?** Art History is more complicated than just a chronology with all the art movements listed. It is the examination of works of art in the context of their historical setting. Art historians study the significance of visual arts (painting, sculpture, and architecture) in the period they were created.

**How do you start an introduction for an art history essay?** Create an introduction that sets the stage for your paper by briefly describing the image you are analyzing and by stating your thesis. Explain how the elements work together to create an overall effect. Try not to just list the elements, but rather explain how they lead to or support your analysis.

**What is the first thing a beginner artist should learn?** A beginner artist should learn to draw the fundamentals first. He/She should start by learning to draw simple shapes, and continue by learning 1-point and 2-point perspective.

**What are the 5 questions in art history?**

**What is taught in art history?** Art history – the study of art from across the world, and from the ancient to the present day – covers virtually every aspect of human

history and experience. This is because it looks at works of art not just as objects, but as a way of understanding the world, and the societies in which they were created.

### **How should I study for art history?**

**What was a result of the War of 1812 answers?** Ultimately, the War of 1812 ended in a draw on the battlefield, and the peace treaty reflected this. The Treaty of Ghent was signed in modern-day Belgium on December 24, 1814, and went into effect on February 17, 1815, after both sides had ratified it.

**Which factor created tension between the United States and Britain ultimately leading to the War of 1812?** The United States had many reasons for going to war in 1812: Britain's interference with its trade and impressment of its seamen; Americans' desire to expand settlement into Indian, British, and Spanish territories; aspirations to conquer Canada and end British influence in North America; and upholding the nation's ...

**Why did the US declare War on Britain in 1812?** As the Ghent negotiations suggested, the real causes of the war of 1812, were not merely commerce and neutral rights, but also western expansion, relations with American Indians, and territorial control of North America.

**How did the War of 1812 affect American history?** The war established clear boundaries between eastern Canada and the United States, set conditions for control of the Oregon Territory, and freed international trade from the harsh restrictions that ignited the war. Learn more about the War of 1812 and its impact on the Chesapeake Bay region below.

**What is the War of 1812 Quizlet?** A war between Britain and the United States, fought between 1812 and 1815. The War of 1812 has also been called the second American war for independence. A fort in N Maryland, at the entrance to Baltimore harbor: during its bombardment by the British in 1814, Francis Scott Key wrote The Star-Spangled Banner.

**How many people died in the War of 1812?** Casualty Information About 15,000 Americans died from the War of 1812. About 8,600 British and Canadians died from

the War of 1812. Causes of death included death from battle or disease.

**Has the US ever lost a war?** Has the U.S. lost a war? The United States has engaged in several wars that resulted in minimal gain or outright loss for the US. These include conflicts like the War of 1812, the Korean War, and the Vietnam War.

**Did Britain ever try to retake America?**

**Has Britain ever lost a war?** Like the Romans, the British fought a variety of enemies. They also had the distinction of being defeated by a variety of enemies, including Americans, Russians, French, Native Americans, Africans, Afghans, Japanese and Germans. Even in defeat, there is something glorious in losing to so many different foes.

**Who is America at war with right now?** Four military engagements encompassing three wars, all of which are interventions, currently involve the US: the Yemeni Civil War, the Somali Civil War, and the Syrian Civil War.

**Which Treaty ended the War of 1812?** On December 24, 1814, British and American representatives who had been meeting in Belgium signed the Treaty of Ghent, the agreement that would end the War of 1812.

**Where was Jackson's greatest victory?** The United States achieved its greatest land victory of the War of 1812 at New Orleans. The battle thwarted a British effort to gain control of a critical American port and elevated Maj. Gen. Andrew Jackson to national fame.

**Why was westward expansion a factor in the War of 1812?** Others suspected, and correctly so, that the war was solely an opportunity for the United States to expand its borders and attain sought-after territory in the Northwest (Canada) and in the South (present-day Florida,) which were occupied by several tribes of Indians and controlled by British and Spanish powers, ...

**How did the War of 1812 influence American economic policy?** The War of 1812 provided tremendous stimulus to American manufacturing. It encouraged American manufacturers to produce goods previously imported from overseas. By 1816, 100,000 factory workers, two-thirds of them women and children, produced more than \$40 million worth of manufactured goods a year.

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**Why did Federalists oppose the War of 1812?** Many in the party believed the war should be restricted to clashes on the high seas rather than campaigns on land. Federalists generally opposed the Republican strategy of invading Canada, believing it would result in disaster for America.

**How did the War of 1812 change the United States?** While many Americans could boast of great progress in the years after the War of 1812, most notably in the shaping of American politics, art, and military tradition, the issue of slavery continued to divide the nation and the true meaning of the United States could not be borne out until after the great bloodletting of ...

**How were Native Americans affected by the War of 1812?** The War of 1812 created a lasting impact on several tribes whose communities were involved. For Native Americans, the War of 1812 created Indian heroes, established historic places, and dispossessed ancient home areas.

**What were the key causes or impacts of the War of 1812?** Causes of the War of 1812 1.) Great Britain had violated American sovereignty by refusing to surrender western forts as promised in the Treaty of Paris after the Revolutionary War. 2.) Great Britain began stopping American sea vessels and forcing subjects on the vessels into the British military.

**Who actually won the War of 1812?**

**Which war was the worst?**

**What is the bloodiest battle in history?** The Battle of Stalingrad is known as one of the most pivotal actions of World War II. More than a million lives were lost in seven months of unrelenting fighting, and the eventual German defeat destroyed Hitler's dream of commanding a global empire.

**What resulted after the War of 1812?** The results of the War of 1812, which was fought between the United Kingdom and the United States from 1812 to 1814, included no immediate boundary changes. The main result of the War of 1812 has been over two centuries of peace between the two countries.

**Which of the following was a result of the War of 1812 Quizlet?** What were the 3 major results of the War of 1812? American patriotism, weakened Native American resistance, and U.S. manufacturing grew.

**What was one result of the War of 1812 brainly?** Final answer: The War of 1812 resulted in a surge of national pride and American expansion in the West. It also led to significant defeats for Native tribes and the downfall of the Federalist Party. Socio-economically, it marked the start of the market revolution, changing the dynamics between the North and the South.

**When did the War of 1812 start and end?** War of 1812, (June 18, 1812–February 17, 1815), conflict fought between the United States and Great Britain over British violations of U.S. maritime rights. It ended with the exchange of ratifications of the Treaty of Ghent.

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