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## **Advantages And Disadvantages On Photosynthesis**

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Through photosynthesis, green plants and cyanobacteria are able to transfer sunlight energy to molecular reaction centers for conversion into chemical energy with nearly 100% efficiency. Speed is the key as the transfer of the solar energy takes place almost instantaneously such that little energy is wasted as heat.

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## **Advantages and disadvantages on photosynthesis measurement ...**

What are the advantages and disadvantages of photosynthesis - Answers The advantages of photosynthesis is that it gives oxygen to us. it helps the plants to grow. it gives energy to us.

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## **What are the advantages and disadvantages of photosynthesis**

Through photosynthesis, green plants and cyanobacteria are able to transfer sunlight energy to molecular reaction centers for conversion into chemical energy with nearly 100% efficiency. Speed is...



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## **(PDF) Advantages and disadvantages on photosynthesis ...**

Disadvantages include: Materials used for artificial photosynthesis often corrode in water, so they may be less stable than photovoltaics over long periods of time. Most hydrogen catalysts are very sensitive to oxygen, being

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inactivated or degraded in its presence; also, photodamage may occur over time.

## **Artificial Photosynthesis - Advantages, Disadvantages, and ...**

The advantages of photosynthesis is that it gives oxygen to us. it helps the plants to grow. it gives energy to us. What are the advantages and

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disadvantages of CAM photosynthesis?  
Advantages it is...

## **What are the advantages or disadvantages of photosynthesis ...**

Photosynthesis helps in providing oxygen in the atmosphere required by all organisms. Photosynthesis decreases the concentration of carbon dioxide and

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other harmful industrial wastes that leads to respiratory problems in living beings. 8.9K views. ·.

### **What are the advantages of photosynthesis? - Quora**

CAM has several advantages e.g., it increases water-use efficiency of the plant and secondly through its enzyme

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PEP carboxylase, they are adapted to extreme hot climates. Further, CAM plants can also obtain a CO<sub>2</sub> compensation point of zero at night and in this way accomplish a steeper gradient for CO<sub>2</sub> uptake compared with C<sub>3</sub> plants.

## **Crassulacean Acid Metabolism |**

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**Photosynthesis**  
Evidently, the greenhouse effect has several advantages and disadvantages. Greenhouse gases support photosynthesis while keeping plant and animal life safe from harmful ultraviolet rays. Additionally, the greenhouse effect may boost agricultural productivity through increased rainfall, faster plant

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growth, and shortened maturity period.

## **Advantages of the Greenhouse Effect and Disadvantages**

This advantage (wrt water loss) also limits the total amount of photosynthesis the plant is capable of during sunlight hours, since at night (during dew-point water loss due to evapotranspiration is

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limited/negligible and stomates open) CO<sub>2</sub> is stockpiled in the form of crassulaic acid and when that acid is completely consumed during the following day, no additional photosynthesis can be performed, regardless of available water or sunlight.

**What are the advantage and**



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## **disadvantage of CAM metabolism ...**

The essence of cellular respiration is the provision of energy to benefit the living organisms. Without giving energy, a particular organism could not perform work. Cellular respiration has been categorized into two, namely aerobic and

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## **6 Pros and Cons of Cellular Respiration - Green Garage**

molecular reaction centers for conversion into chemical energy with nearly 100% efficiency. Speed is the key as the transfer of the solar energy takes place almost instantaneously such that little energy is wasted as heat. How photosynthesis achieves this near

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instantaneous energy transfer is a long-

## **Advantages and disadvantages on photosynthesis measurement ...**

→ Disadvantage :- Major disadvantage of artificial photosynthesis is the cost. Artificial photosynthesis could be more efficient than photosynthesis in plants; but if production of biofuel from plants

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and algae turns out to be more cost-efficient, it might have the advantage in the short run. 🙌 I THINK IT HELPED YOU 🙌

## **Advantages and disadvantages of artificial photosynthesis ...**

Advantages of C4 Photosynthesis In hot and dry environments C4 photosynthesis

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is more efficient than C3 photosynthesis. This is due to two reasons. The first one is that the system does not undergo photorespiration, a process that runs counter to photosynthesis (see below).

### **What Is the Advantage of C4 Photosynthesis? | Sciencing**

The drawback to C4 photosynthesis is

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the extra energy in the form of ATP that is used to pump the 4-carbon acids to the bundle sheath cell and the pumping of the 3-carbon compound back to the mesophyll cell for conversion to PEP. This loss to the system is why C3 plants will outperform C4 plants if there is a lot of water and sun.

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Mimicking photosynthesis (nature's most effective way of producing energy) to create fuel; Producing a fuel that is strong enough to power vehicles from natural CO<sub>2</sub>, water and sunlight; The process of artificial photosynthesis makes carbon storage more economically efficient, as the CO<sub>2</sub> can

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be used to produce products available for purchase; Creating an endless, inexpensive supply of clean ...

## **Advantages/Limitations - Artificial Photosynthesis**

It is called photosynthesis to the process by which some organisms use the energy of solar radiation to synthesize



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organic molecules that can later be used as fuel for their cellular metabolism. In this way, thanks to photosynthesis, these organisms are able to manufacture their own food with the help of light, so they are classified as photoautotrophic organisms .

### **What is anoxygenic photosynthesis?**

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~ **LORECENTRAL**

The net rate of photosynthesis (and consequently also the net production of biomass) of C<sub>4</sub> plants is far larger at high light intensities than that of C<sub>3</sub> plants. The optimal temperature of photosynthesis is below that of the respiration in darkness. As a consequence are losses caused by

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respiration larger at high than at low temperatures.

**LON-CAPA Botany online:  
Photosynthesis - C3, C4 and CAM ...**  
Plants lose a lot of water when they open their stomata to get carbon dioxide for photosynthesis, especially in hot, dry deserts. Cacti lose less water by only

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opening their stomata at night. Night is cooler and not as dry which means that less water will evaporate from the plant.

### **Crassulacean Acid Metabolism | Ask A Biologist**

Weigh the advantages and disadvantages of C3 versus C4;  
Compare and contrast photosynthesis

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and respiration, and their relationship in the global carbon and oxygen cycles. Rubisco's oxygenase activity impairs photosynthetic efficiency. Rubisco has oxygenase activity as well as carboxylase activity; it sometimes fixes O<sub>2</sub> to RuBP instead of CO<sub>2</sub>.

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