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## **intro to photosynthesis article khan academy**

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photosynthesis is the process in which light energy is converted to chemical energy in the form of sugars in a process driven by light energy glucose molecules or other sugars are constructed from water and carbon dioxide and oxygen is released as a byproduct

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the process during photosynthesis plants take in carbon dioxide  $CO_2$  and water  $H_2O$  from the air and soil within the plant cell the water is oxidized meaning it loses electrons while the carbon dioxide is reduced meaning it gains electrons this transforms the water into oxygen and the carbon dioxide into glucose

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photosynthesis uses carbon dioxide and water to assemble carbohydrate molecules usually glucose and releases oxygen into the air eukaryotic autotrophs such as plants and algae have organelles called chloroplasts in which photosynthesis takes place

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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

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highlights learning objectives by the end of this section you will be able to summarize the process of photosynthesis explain the relevance of photosynthesis to other living things identify the reactants and products of photosynthesis describe the main structures involved in photosynthesis

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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

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photosynthesis ,foʊtəˈsɪnθəsis foh tə sinth ə sis 1 is a system of biological processes by which photosynthetic organisms such as most plants algae and cyanobacteria convert light energy typically from sunlight into the chemical energy necessary to fuel their activities

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it is the only biological process that can capture energy that originates from sunlight and converts it into chemical compounds carbohydrates that every organism uses to power its metabolism it is also a source of oxygen necessary for many living organisms

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plants algae and some unicellular organisms do photosynthesis photosynthesis is powered by energy from sunlight this energy is used to rearrange atoms in carbon dioxide and water to make oxygen and sugars carbon dioxide and water are inputs of photosynthesis these inputs come from the environment

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photosynthesis plants are autotrophs which means they produce their own food they use the process of photosynthesis to transform water sunlight and carbon dioxide into oxygen and simple sugars that the plant uses as fuel these primary producers form the base of an ecosystem and fuel the next trophic levels

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overview of photosynthesis photosynthesis is a multi step process that requires sunlight carbon dioxide and water as substrates it produces oxygen and glyceraldehyde 3 phosphate g3p or ga3p simple carbohydrate molecules that are high in energy and can subsequently be converted into glucose sucrose or other sugar molecules

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photosynthesis is a process by which phototrophs convert light energy into chemical energy which is later used to fuel cellular activities the chemical energy is stored in the form of sugars which are created from water and carbon dioxide 3 12 343 table of contents what is photosynthesis site of photosynthesis factors equation structure

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482 photosynthesis is a process that occurs in plants algae and some bacteria these photosynthetic organisms called autotrophs use the sun's energy to convert carbon dioxide  $\text{CO}_2$  into organic compounds such as carbohydrates an example of carbohydrates would be simple sugars such as glucose mannose or galactose

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photosynthesis is the process by which organisms convert light energy into chemical energy in the form of reducing power as  $\text{NADPH}$  or  $\text{NADH}$  and  $\text{ATP}$  and use these chemicals to drive carbon dioxide fixation and reduction to produce sugars

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photosynthesis involves two stages the light dependent reactions which require sunlight and water to produce oxygen  $\text{ATP}$  and  $\text{NADPH}$  and the light independent reactions or dark reactions which use the products of the light dependent reactions along with carbon dioxide to produce carbohydrates created by sal khan questions tips thanks

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what you'll learn to do identify the basic components and steps of photosynthesis

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photosynthesis is the process by which plants use light energy to reduce carbon dioxide  $\text{CO}_2$  to sugars which are subsequently converted to a variety of organic compounds that constitute 95 of plant dry mass controls over photosynthesis are thus a key

regulator of the stoichiometry of npp

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an overview of photosynthesis introduction photosynthesis is the ultimate source of all of humankind s food and oxygen whereas fossilized photosynthetic fuels provide 87 of the world s energy it is the biochemical process that sustains the biosphere as the basis for the food chain

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