

# Photosynthesis

## Picture Vocabulary

Matter and Energy

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# Radiant Energy



Energy from the Sun that reaches Earth as visible light, and ultraviolet and infrared (heat) radiation.

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# Chemical Energy



A model of a single molecule of glucose that is used by organisms for energy to carry out functions like regulating body temperature and muscle movement

Energy stored in chemical bonds and released through chemical reactions.

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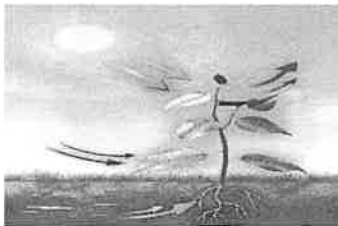
# Mechanical Energy



Energy or movement

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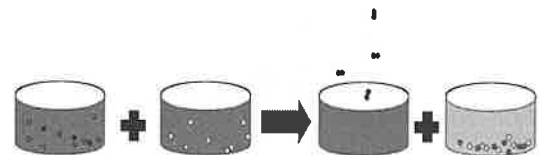
# Photosynthesis



A chemical reaction during which plants convert radiant energy from the Sun to chemical energy; the reaction converts carbon dioxide and water into sugar (glucose).

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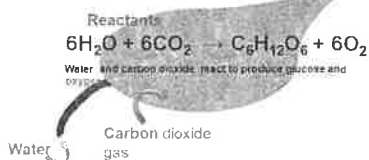
# Chemical Reaction



A process by which two or more chemical substances interact and are chemically changed, producing different chemical substances.

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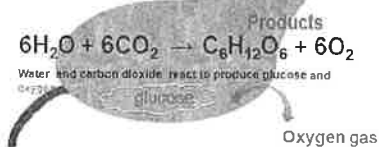
# Reactants



A substance that takes part in and undergoes change during a reaction.

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# Products



A substance produced during a chemical reaction.

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## Glucose

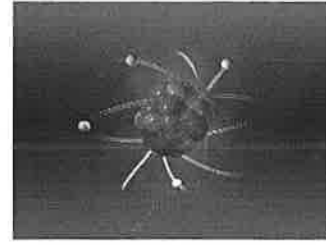


A model of a single glucose molecule

Simple carbohydrates; produced by photosynthesis and used to store energy and build structural molecules.

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## Atom



The smallest particle of an element, made of electrons, protons, and neutrons.

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## Molecule



A model of a single water molecule



A model of a single glucose molecule

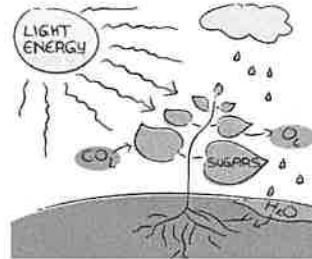


A single molecule showing the element carbon

The simplest unit of a chemical compound that can exist, formed when two or more atoms join together chemically.

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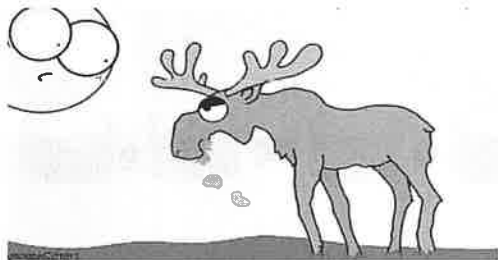
## Autotroph



An organism that is able to capture energy from sunlight or chemicals and use it to produce its own food

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## Heterotroph



An organism that cannot make its own food and gets food by consuming other living things

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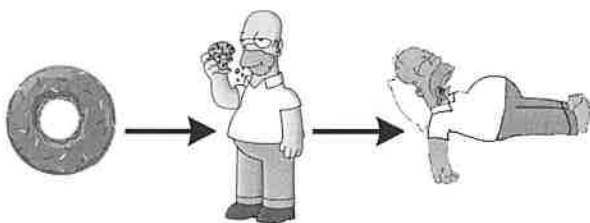
## Chlorophyll



A green photosynthetic pigment found in the chloroplasts of plants, algae and some bacteria

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## Cellular Respiration



The process in sugars (glucose) are converted into useable energy (ATP)

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