

Intro

We all get energy from food.

Food stores energy in the form of chemical energy in its nutrients.

Our body extracts chemical energy by oxidation of food materials.

During oxidation, oxygen helps in the breakdown of food thus, liberating energy and giving out carbon dioxide with the waste product.-So this means that oxygen breaks down food into simpler parts and liberating energy (energy which is released) releases the carbon dioxide with the waste product.

This process of energy production occurs all day

Digested food + oxygen = energy + waste products-So here digested food is getting combined with oxygen which creates energy. and the liberating energy thus releases the waste product so it talks about the combination of these symptoms.

Characteristics of respiration

Characteristics of respiration are: 1- food is used up 2- energy is produced 3- oxygen is used up and carbon dioxide is given out All three events take place in living cells.-So here it says that the food is used up means digested and energy is produced when we digested it then the oxygen is used up to break down food into simpler parts then the carbon dioxide and waste is given out.

Difference between aerobic and anaerobic

Aerobic --- 1-it takes place in the presence of oxygen	Anaerobic---1-it takes place in the absence of oxygen.
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2- Food molecules (sugars) are broken down into carbon dioxide, water and energy	2- food molecules (sugars) are broken down into ethyl alcohol, carbon dioxide and energy.
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3- high amount of energy released	3- less amount of energy released.
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Types of respiration

Aerobic- when oxygen is used for the process of respiration it is known as aerobic respiration.	Anaerobic- in some organisms like bacteria and yeast, oxygen is not required. so the process where oxygen not required is anaerobic.
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Aerobic respiration- Food + oxygen = carbon dioxide + water + high amount of energy.-so when food and oxygen combines it creates carbon dioxide and water as the waste product and in this process high amount of energy is released.

Anaerobic respiration= Food = Ethyl alcohol + carbon dioxide + less energy-so this process uses food as fuel and ethyl alcohol (a type of alcohol) and carbon dioxide are the waste products. and this process releases less energy

Nose



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