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jan 21 2023 respiration in humans can be referred to as a metabolic process that is carried out in 4 stages glycolysis where two molecules of atp and pyruvate is generated pyruvate oxidation acetyl coa is produced which is used in the citric acid cycle citric acid cycle two molecules of atp have generated again aug 20 2019 respiration may refer to any of the three elements of the process first respiration may refer to external respiration or the process of breathing inhalation and exhalation also called

ventilation secondly respiration may refer to internal respiration which is the diffusion of gases between body fluids blood and interstitial fluid and jan 18 2023 respiration is a process that occurs within cells to release energy through the breakdown of glucose molecules based on the use of oxygen the process can be conveniently divided into two categories aerobic and anaerobic respiration it is a common misconception that humans and other multicellular organisms only use aerobic respiration aug 6 2021 respiration is a metabolic process that occurs in all organisms it is a biochemical process that occurs within the cells of organisms in this process the energy atp adenosine triphosphate is produced by the breakdown of glucose which is further used by cells to perform various functions every living species from a single celled organism glycolysis the name glycolysis means sugar splitting and sure enough this metabolic pathway splits glucose into two three carbon molecules learn more about the steps of glycolysis and how it is used in both cellular respiration and fermentation nov 15 2022 respiration is the metabolic process of oxygen intake and carbon dioxide release it s controlled by a body system called the respiratory drive the respiratory drive can be broken down into sep 13 2021 there are three main steps of cellular respiration glycolysis the citric acid cycle oxidative phosphorylation through the electron transport chain glycolysis is the first step of cellular sep 22 2021 respiration is the biochemical process in which the cells of an organism obtain energy by combining oxygen and glucose resulting in the release of carbon dioxide water and atp the currency of jan 15 2021 cellular respiration is the process through which cells convert fuel into energy and nutrients to create atp and other forms of energy that they can use to power their life functions cells require fuel and an electron acceptor which drives the chemical process of turning energy from that fuel into a useable form what is the respiration rate the respiration rate is the number of breaths a person takes per minute the rate is usually measured when a person is at rest and

simply involves counting the number of breaths for one minute by counting how many times the chest rises respiration rates may increase with fever illness and other medical conditions

respiration definition 1 breathing 2 changes that allow gas exchange within cells 3 breathing learn more respiration is one of the key ways a cell releases chemical energy to fuel cellular activity the overall reaction occurs in a series of biochemical steps some of which are redox reactions although cellular respiration is technically a combustion reaction it is an unusual one because of the slow controlled release of energy from the series

respiration definition the act of respiring inhalation and exhalation of air breathing see more steps of cellular respiration during cellular respiration a glucose molecule is gradually broken down into carbon dioxide and water along the way some atp is produced directly in the reactions that transform glucose much more atp however is produced later in a process called oxidative phosphorylation oxidative phosphorylation is powered respiration noun the movement of air or dissolved gases into and out of the lungs a single complete act of breathing respiration at less than a normal rate for the individual s age in adults it is a respiratory rate of less than 12 breaths per minute slower than normal respiratory rates occur after opiate or sedative use during sleep in coma and other conditions and may result in respiratory failure or carbon dioxide retention synonym slow respiration mar 23 2020 your respiratory rate is also known as your breathing rate this is the number of breaths you take per minute you can measure your breathing rate by counting the number of breaths you take over the course of one minute while you re at rest sit down and try to relax it s best to take your respiratory rate while sitting up in a chair or in bed physiological respiration involves the mechanisms that ensure that the composition of the functional residual capacity is kept constant and equilibrates with the gases dissolved in the pulmonary capillary blood and thus throughout the body thus in precise usage the words breathing

and ventilation are hyponyms not synonyms of respiration cellular respiration the process by which organisms combine oxygen with foodstuff molecules diverting the chemical energy in these substances into life sustaining activities and discarding as waste products carbon dioxide and water organisms that do not depend on oxygen degrade foodstuffs in a process called fermentation for longer treatments of various aspects of plant cells do cellular respiration too the difference is that plants and photosynthetic bacteria don't need to eat something to get the energy they have an extra process by which they produce their own glucose using energy from the sun the reaction somewhat simplified is $6 \text{ CO}_2 + 12 \text{ H}_2\text{O} + \text{light} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6$

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