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converted to the stored energy in atp molecules cellular respiration requires oxygen a food molecule such as as glucose and gives off carbon dioxide water and energy a collection of activities and labs to teach cellular respiration concepts to high school students learn the basics of photosynthesis glycolysis krebs cycle and electron transport chain with fun and engaging activities find a worksheet to measure the rate of respiration in different organisms cellular respiration uses oxygen in addition to glucose cellular respiration takes place in the cells of all aerobic organisms glycolysis takes place in the matrix of a mitochondrion cellular respiration involves four steps glycolysis pyruvate oxidation krebs cycle and an electron transport chain etc the first step glycolysis takes place outside the mitochondria while the other three steps pyruvate oxidation krebs cycle and electron transport chain take place inside the mitochondria

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key points cellular respiration is a process that happens inside an organism s cells this process releases energy that can be used by the organism to live and grow many food molecules are broken down into glucose a simple sugar glucose is used in cellular respiration glucose and oxygen are inputs of cellular respiration

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cellular respiration a three stage process converts glucose and oxygen to atp the cellular form of energy and releases carbon dioxide and water this is cellular respiration the exact formula is c₆h₁₂o₆ 1 glucose molecule 6 o₂ 6 co₂ 6 h₂o 36 atp energy

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describes the metabolic changes that will occur in the yeast cell choose 1 answer

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cellular respiration is the chemical process that occurs in all living cells from animal to plant to bacterial cells the trapped energy in the bonds of food molecules is converted to the stored energy in atp molecules cellular respiration requires oxygen a food molecule such as as glucose and gives off carbon dioxide water and energy

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cellular respiration uses oxygen in addition to glucose cellular respiration takes place in the cells of all aerobic organisms glycolysis takes place in the matrix of a mitochondrion

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cellular respiration involves four steps glycolysis pyruvate oxidation krebs cycle and an electron transport chain etc the first step glycolysis takes place outside the mitochondria while the other three steps pyruvate oxidation krebs cycle and electron transport chain take place inside the mitochondria

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