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Photosynthesis and Breathing Links Online Textbooks Online Biology Book Common Good Links AP Labs - Lab Bench from Pearson - AP Essays - Answer to AP Biology Labs - Alternative Sheet Transpiration Laboratory No Laboratory Report Pattern Photosynthesis Biology Project interactive online resource for biology training, developed by the University of Arizona. Cellular Breath ATP ADP vs ATP ATP from the virtual cell animation collection Student Activity Big Idea: Cellular Breathing and Fermentation Harvest Free Energy From Sugars to Produce Free Energy Carriers (ATP.) Sugar Energy stimulates metabolic pathways in cells. Photosynthesis and breathing are interdependent processes. 1. All living systems require constant energy input to maintain orderly systems - What does this have to do with the 2nd Law of Thermodynamics? 2. Energy is used to maintain organization, growth, reproduction and maintain body temperature (endotherma) - What happens if the amount of free energy in the body has changed? 3. Autotrophes and heterotrophs capture free energy, just in different ways 4. Cellular respiration is the breakdown of glucose (C₆H₁₂O₆) in the presence of oxygen (O₂) for the production of cellular energy - ATP C₆H₁₂O₆ and 6O₂ → 6 CO₂ and 6H₂O 36 ATP Anaerobic Breath - Oxygen-Free Fermentation (Anaerobic Breath) In the process, the cell uses glycolysis to break down glucose (just like in breathing). This reaction leads to a byproduct called lactic acid. Fermentation produces less ATP than aerobic breath. Muscle cells will use this pathway during strenuous workouts where you accumulate and oxygen dates. Lactic acid is what causes muscle soreness. Yeast fermentation is used to produce beer and wine. Food for thought 1. What is the purpose of cellular respiration? 2. Where does cellular respiration occur in the cell? 3. Why do we need oxygen? What happens when there is no oxygen? 4. Comparison of photosynthesis with breathing a) Where does each of them occur? b) What are the products of each of them? c) Describe the role of ATPase in photosynthesis and cellular respiration. 5. Do plants have mitochondria and need to be respired? How would you design an experiment If plants have cellular breathing? Name: _____ Date: NO WORD BANK 2 ATP 2 ATP 36 ATP 6 NADH 2 FADH Electronic Transport Chain Mitochondrial Cytoplasm Fermentation Glycolysis Glucose Pyruvate Milk Acid Krebs Cycle 6th, 7th, 8th, 9th, 10th, 11th, 12th, HomeschoolPage 20! We found no results for cell%20respiration%20graphic%20organizer. Please check your spelling and try again. Once again. cellular respiration worksheet biology corner answers. cellular respiration coloring worksheet biology corner

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