**Cellular respiration study guide**

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| **Cellular Respiration Study Guide** | http://www.biologyjunction.com/images/professor2.gif |
| |  | | --- | | **What type of organisms carry on photosynthesis?** | | **What type of organisms carry on cellular respiration?** | | **To get the most ATP from glucose, what type of respiration must follow glycolysis?** | | **Does fermentation take place with oxygen?** | | **Does oxidative respiration need oxygen?** | | **Is glycolysis an efficient pathway for getting ATP (energy) from glucose? Explain.** | | **Is oxidative respiration or aerobic respiration an efficient pathway fro getting ATP from glucose? Explain.** | | **Is lactic acid fermentation aerobic or anaerobic?** | | **When cells break down food, energy is temporarily stored in what molecule?** | | **What energy molecule is essential for a cell to do any of its work?** | | **What is the process called when organic compounds are broken down in the absence of oxygen?** | | **What is the name of the process that breaks down food molecules in cells to release energy?** | | **What gas is made during photosynthesis that is later used in cellular respiration?** | | **What is the name of the process that splits glucose into pyruvate & releases some ATP?** | | **What builds up in muscles when they are overworked and there is not enough oxygen present?** | | **If lactic acid forms when glucose is broken down, this shows that there was not enough of what gas present?** | | **What are the 2 main stages of cellular respiration called?** | | **Citric acid forms during which part of cellular respiration?** | | **Does glycolysis need oxygen?** | | **What 2 energy carriers are formed during the Krebs cycle?** | | **Is the Calvin cycle part of cellular respiration? Explain.** | | **Is the energy carrier NADPH formed in cellular respiration? Explain.** | | **Carbon dioxide, water, & ATP are formed during the \_\_\_\_\_\_\_ cycle and the \_\_\_\_\_\_\_\_\_\_\_ chain.** | | **Which produces more ATP — Krebs cycle & electron transport chain or glycolysis?** | | **Water is formed at the end of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.** | | |