**Cellular respiration study guide**

|  |  |
| --- | --- |
| **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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.** |

 |