CELLULAR RESPIRATION STUDY GUIDE

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MULTIPLE CHOICE. Circle ALL that are TRUE. There may be MORE THAN one correct answer. is the first step in cellular respiration that begins releasing energy stored in glucose. A. Alcoholic fermentation B. Lactic acid fermentation Glycolysis
Electron transport chain The carriers for energy and high energy electrons during GLYCOLYSIS are ___ B NADH C. FADH₂ D. NADPH If oxygen is NOT present, glycolysis is followed by ____ A. Krebs cycle B electron transport chain C fermentation Name the 3 carbon molecule produced when glucose is broken in half during glycolysis. A. pyruvic acid
B. lactic acid C. Acetyl-CoA D. citric acid Since fermentation does not require oxygen it is said to be _____ A. aerobic (B.) anaerobic Which high energy electron carrier is regenerated during fermentation that allows cells to continue to make ATP using glycolysis? B. NADPH C. ATP D. ADP

How many ATP molecules are added to get glycolysis started? 2

Since glycolysis produces 4 ATP molecules, this results in a NET GAIN of $\frac{2}{3}$ ATP's