## Cheatography

## BIO 101 Lab Final Cheat Sheet by muunsey via cheatography.com/212475/cs/46164/

Lab 9: Cellular Respiration & Fermentation		Lab 9: Cellular Respiration & Fermentation (cont)		Lab 9: Cellular Respiration & Fermentation (cont)	
Terms to Remember Glycolysis - the process by which glucose is broken into 2 pyruvate	Procedures Glycolysis takes place in the cytoplasm and produces 2 ATP	ATP - Adenosine Tripho- sphate, cellular energy Lactic Acid - build up in muscle tissue causing soreness and cramping Mitoch- ondria - a double membrane bound organelle that generates	Rates of Fermen- tation Starch = lowest rate of fermentation, must break down into smaller parts before fermen- tation can begin Sucrose = faster rate of fermen- tation, is a disacc- haride and there is less to break down Glucose = highest rate of fermen- tation, is a mono saccharide and is in its simplest form Yeast = Saccha- romyces cerevisiae Aerobic Respir- ation Equation: $C_6H_{12}O_6 + 6O_2 -$ > $6CO_2 + 6H_2O +$ ATP	Anaerobic - <i>without</i> oxygen	KOH was used to capture the carbon dioxide produced by the live beans, so that we are <i>just</i> measuring the oxygen being emitted
Calcium Carbonate - CaCO <sub>3</sub> , chalk Aerobic - <i>with</i>	The Krebs Cycle takes place in the mitochondria and produces 2 ATP The Electron			Kreb's Cycle - a cyclical pathway that takes place in the matrix of the	Latic Acid Equation: $C_6H_{12}O_6 \rightarrow 2(C_3H_6O_3) + 2ATP$
oxygen	Transport Chain takes place in the folds of the cristae of the mitochondria and produces 32 ATP			mitochondria Cellular Respiration = aerobic Fermentation = anaerobic Lab 10: Molect	The cramping of muscles is caused by the lack of oxygen in the cells.
Electron Transport Chain (E.T.C.) - a	Alcoholic Fermentation Equation:			in Biotechnolog Terms to Remember	
protein complex through which electrons move to extract energy, produces the most ATP	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> -> 2(C <sub>2</sub> H <sub>5</sub> OH) + 2CO <sub>2</sub> + 2ATP			Lab 11: DNA F Analysis and C Terms to Remember Lab 12: Mende	Cell Division Procedures
		ATP Budding - a form of asexual reprod- uction used by yeast	Respirometer: used to measure the rate of oxygen consumption	Terms to Remember	Procedures



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