

## Chapter 8 Study Guide

### CHAPTER 8 Cellular Respiration and Fermentation

1. Write the overall reaction for Aerobic Respiration.
2. Diagram Glycolysis, indicating the major reactants, products, energy consumed and produced and cellular location.
3. Differentiate between Substrate-level and Oxidative Phosphorylation.
4. Describe the control of Glycolysis, what is the rate-limiting enzyme, and its inhibitor(s).
5. Diagram Pyruvate Oxidation, including the reactant, products, enzyme, and cellular location.
6. Diagram the important steps in the Krebs Cycle, including the reactant, products, enzyme(s) and cellular location.
7. Describe the control of the Krebs Cycle, including the reactants, products, enzymes and cellular location.
8. Describe the control of the Krebs Cycle, what is the rate-limiting enzyme, and its inhibitor(s).
9. Diagram the steps in the Mitochondrial/Respiratory Electron Transport Chain, including all the cytochromes, reactants, products, and cellular location.
10. In addition to transporting electrons from NADH to Oxygen, what else occurs in Electron Transport, and what is the high energy product?
11. What makes the Electron Transport Chain part of Aerobic Respiration?
12. Describe the structure of the Mitochondria, indicating what process occurs in each area.
13. At what point in the process of Aerobic Respiration do carbohydrates other than Glucose enter the pathway?
14. At what point in the process of Aerobic Respiration do proteins enter the pathway?
15. At what point in the process of Aerobic Respiration do triglycerides enter the pathway?
16. How much energy is generated by the respiration of carbohydrates, vs. protein, vs. lipid?
17. Diagram the steps in Lactate and Alcoholic Fermentation, indicating the major reactants and products.
18. How much energy is generated by Anaerobic vs. Aerobic Respiration?
19. Why don't all cells use only Aerobic Respiration to produce larger amounts of ATP?
20. What important intermediate of Glycolysis needs to be produced by ALL forms of Fermentation?
21. Diagram all the important steps in Aerobic Respiration, including the reactants, products, and cellular locations.

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**S Ben Porath**



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