

Chapter 9 Cellular Respiration

Chapter Vocabulary Review

Defining Terms *On the lines provided, write a definition for each of the following terms.*

1. calorie _____

2. glycolysis _____

3. cellular respiration _____

4. NAD⁺ _____

5. fermentation _____

6. anaerobic _____

7. aerobic _____

8. Krebs cycle _____

9. electron transport chain _____

Identification *On the lines provided, identify which phrase describes the following processes: cellular respiration, glycolysis, lactic acid fermentation, or alcoholic fermentation.*

10. important in baking bread _____

11. builds up in muscles after a few seconds of intense activity _____

12. requires oxygen and glucose _____

13. produces 2 ATP molecules and pyruvic acid _____

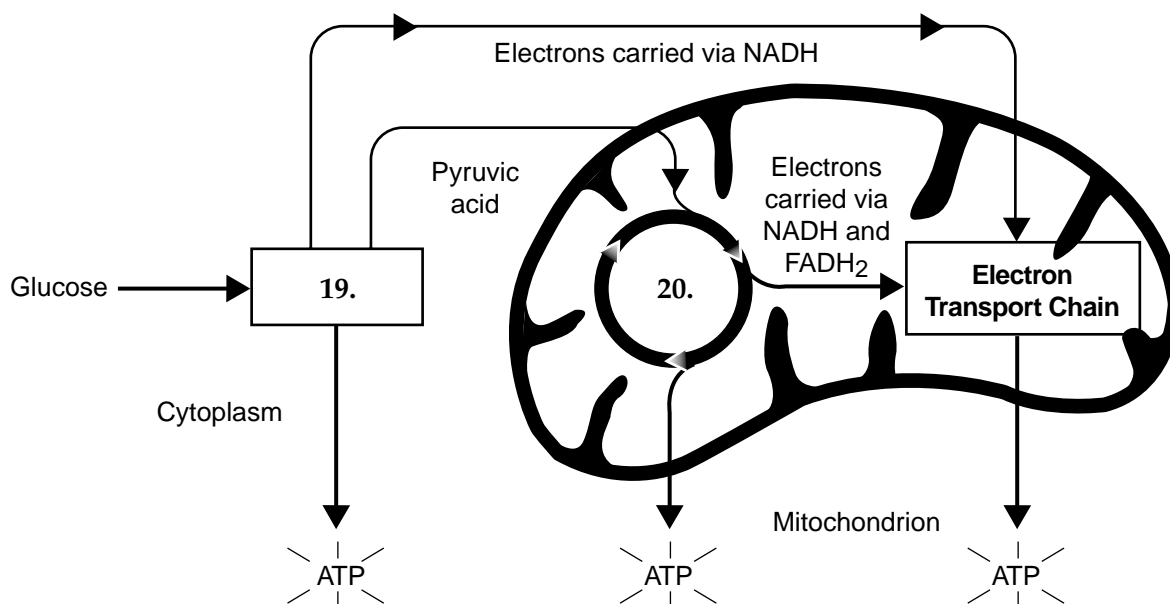
14. almost the opposite process of photosynthesis _____

15. the reason why runners breathe heavily after a race _____

Multiple Choice *On the lines provided, write the letter that best answers the question.*

- _____ 16. What is the net energy gain in glycolysis?
 a. 4 molecules of ATP c. 36 molecules of ATP
 b. 2 molecules of ATP d. 38 molecules of ATP
- _____ 17. Which of the following causes a painful, burning sensation in muscles after vigorous exercise?
 a. alcohol c. pyruvic acid
 b. glycolysis d. lactic acid
- _____ 18. What is another name for the Krebs cycle?
 a. the glycolysis cycle c. the citric acid cycle
 b. alcoholic fermentation d. the respiration cycle

Interpreting Diagrams *On the lines below, write the name of the stage of cellular respiration that corresponds with the numbers in the diagram.*



19. _____
 20. _____