



Name _____

Period _____

Date _____

SECTION
4.5

CELLULAR RESPIRATION IN DETAIL
Study Guide

KEY CONCEPT

Cellular respiration is an aerobic process with two main stages.

MAIN IDEA: Glycolysis is needed for cellular respiration.

1. What is the function of glycolysis?

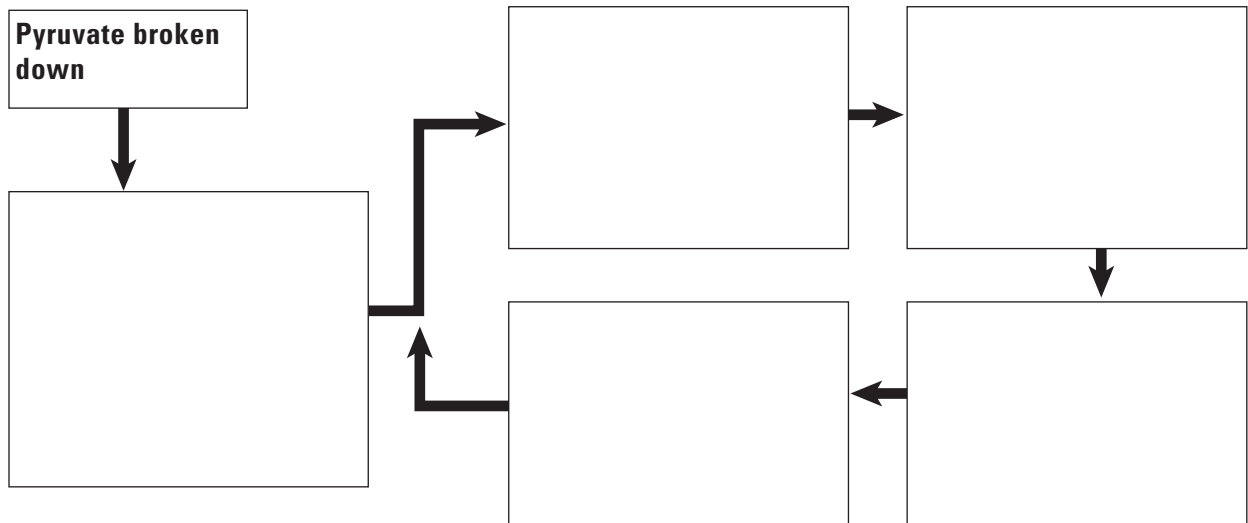
2. What happens to the molecules formed during glycolysis when oxygen is available?

3. What is meant by a “net gain of two ATP molecules” from glycolysis?

MAIN IDEA: The Krebs cycle is the first main part of cellular respiration.

4. What is the function of the Krebs cycle?

Complete the cycle diagram below to summarize the six steps of the Krebs cycle.



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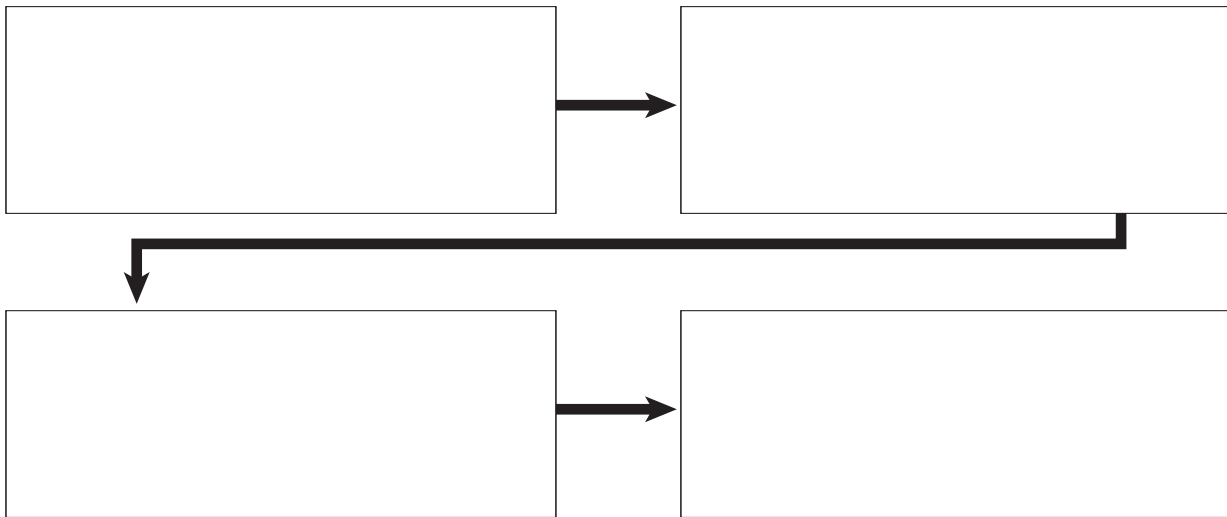
Section 4.5 STUDY GUIDE CONTINUED

MAIN IDEA: The electron transport chain is the second main part of cellular respiration.

5. Where is the electron transport chain in cellular respiration located?

6. What is the function of the electron transport chain?

Fill in the sequence below to take notes on the four steps of the electron transport chain.



7. Why is oxygen needed for cellular respiration?
