

Chapter 9

Due: 11:58pm on Friday, October 30, 2020

You will receive no credit for items you complete after the assignment is due. [Grading Policy](#)**Cellular Respiration (5 of 5): Summary (BioFlix tutorial)**

Before beginning this tutorial, [watch](#) the Cellular Respiration animation. You can review relevant parts of the animation at any point in the tutorial.

Part A - The coupled stages of cellular respiration

The four stages of cellular respiration do not function independently. Instead, they are coupled together because one or more outputs from one stage functions as an input to another stage. The coupling works in both directions, as indicated by the arrows in the diagram below. In this activity, you will identify the compounds that couple the stages of cellular respiration.

Drag the labels on the left onto the diagram to identify the compounds that couple each stage. Labels may be used once, more than once, or not at all.

Hint 1: Can you identify a compound that couples two processes?

Coupling is extremely important in the regulation of metabolic pathways, such as cellular respiration. Two processes are coupled when an output from one process is an input to the other process. In that way, one process depends on the other to supply the reactant it needs.

What compound couples glycolysis to acetyl CoA formation?

ANSWER:

- ☐ NADH
- ☒ pyruvate
- ☐ ADP + P_i
- ☐ ATP
- ☐ NAD⁺
- ☐ glucose

Hint 2: Inputs and outputs of the stages of cellular respiration

The following table summarizes the inputs and outputs of the stages of cellular respiration. Note that FAD and FADH₂ are not included in this table.

Glycolysis		Acetyl CoA Formation and the Citric Acid Cycle		Oxidative Phosphorylation	
Inputs	Outputs	Inputs	Outputs	Inputs	Outputs
glucose	pyruvate	pyruvate	CO ₂	O ₂	water
NAD ⁺	NADH	NAD ⁺	NADH	NADH	NAD ⁺
ADP + P _i	ATP	ADP + P _i	ATP	ADP + P _i	ATP

ANSWER:

Mastering Biology Answers Ch 15

R Sanford



Mastering Biology Answers Ch 15:

The book delves into Mastering Biology Answers Ch 15. Mastering Biology Answers Ch 15 is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Mastering Biology Answers Ch 15, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Mastering Biology Answers Ch 15
 - Chapter 2: Essential Elements of Mastering Biology Answers Ch 15
 - Chapter 3: Mastering Biology Answers Ch 15 in Everyday Life
 - Chapter 4: Mastering Biology Answers Ch 15 in Specific Contexts
 - Chapter 5: Conclusion
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This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Mastering Biology Answers Ch 15.

https://staging.conocer.cide.edu/data/detail/Documents/Manual_Do_Candidato_Covest_2009.pdf

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