

# Mastering Biology Chapter 9 Quiz 1 | with complete solution | updated 2024

Substrate-level phosphorylation accounts for approximately what percentage of the ATP formed by the reactions of glycolysis?

- a. 0%
- b. 100%
- c. 38%
- d. 10%
- e. 2% - b. 100%

During glycolysis, when each molecule of glucose is catabolized to two molecules of pyruvate, most of the potential energy contained in glucose is

- a. stored in the NADH produced.
- b. used to phosphorylate fructose to form fructose 6-phosphate.
- c. retained in the two pyruvates.
- d. transferred directly to ATP.
- e. transferred to ADP, forming ATP. - c. retained in the two pyruvates.

In addition to ATP, what are the end products of glycolysis?

- a. NADH and pyruvate
- b. CO<sub>2</sub> and pyruvate
- c. CO<sub>2</sub> and NADH
- d. CO<sub>2</sub> and H<sub>2</sub>O
- e. H<sub>2</sub>O, FADH<sub>2</sub>, and citrate - a. NADH and pyruvate

Starting with one molecule of glucose, the energy-containing products of glycolysis are

- a. 6 CO<sub>2</sub>, 2 pyruvate, and 2 ATP.
- b. 6 CO<sub>2</sub>, 2 pyruvate, and 30 ATP.
- c. 2 FADH<sub>2</sub>, 2 pyruvate, and 4 ATP.
- d. 2 NADH, 2 pyruvate, and 2 ATP.
- e. 2 NAD<sup>+</sup>, 2 pyruvate, and 2 ATP. - d. 2 NADH, 2 pyruvate, and 2 ATP.

Which kind of metabolic poison would most directly interfere with glycolysis?

- a. an agent that closely mimics the structure of glucose but is not metabolized
- b. an agent that blocks the passage of electrons along the electron transport chain
- c. an agent that reacts with oxygen and depletes its concentration in the cell
- d. an agent that binds to pyruvate and inactivates it
- e. an agent that reacts with NADH and oxidizes it to NAD<sup>+</sup> - a. an agent that closely mimics the structure of glucose but is not metabolized

A glucose molecule is completely broken down to carbon dioxide and water in glycolysis and the citric acid cycle, but together these two processes yield only a few molecules of

# Mastering Biology Answers Chapter 9

**AW Chickering**



## **Mastering Biology Answers Chapter 9:**

## **Mastering Biology Answers Chapter 9** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Mastering Biology Answers Chapter 9**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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