

## Section 9.3 Getting Energy to Make ATP

In your textbook, read about the cellular respiration and fermentation.

Fill in the names of the molecules to complete the glycolysis reaction. Use these choices: 2PGAL, 4ATP, glucose, 2ADP, 2 pyruvic acid, 2NADH + 2H<sup>+</sup>. Then answer the questions.



7. What happens to pyruvic acid before entering the citric acid cycle?

Pyruvic acid combines with coenzyme A to form acetyl-CoA.

8. What happens to the electrons carried by the NADH and FADH<sub>2</sub> molecules produced during the citric acid cycle?

The electrons are passed through an electron transport chain, releasing energy at each step.

9. During which stages of cellular respiration are ATP molecules formed?

During all three (glycolysis, citric acid cycle and electron transport chain)

10. Why is oxygen necessary for cellular respiration?

Oxygen is the final electron acceptor in the electron transport chain

11. How is fermentation different from cellular respiration?

Fermentation occurs when no oxygen is available. Fermentation produces fewer ATP molecules.

In your textbook, read about comparing photosynthesis and cellular respiration.

Answer the following question.

12. Describe two ways in which cellular respiration is the opposite of photosynthesis.

In cellular respiration, chemical energy is released, whereas in photosynthesis, chemical energy is stored. Products of cellular respiration, CO<sub>2</sub> and H<sub>2</sub>O, are used in photosynthesis. Products of photosynthesis, glucose and O<sub>2</sub>, are used in cellular respiration.

# Grade 9 Guided Work Biology

**Cathryn Berger Kaye**



## **Grade 9 Guided Work Biology:**

*A Guide to Teaching in the Active Learning Classroom* Paul Baepler, J. D. Walker, D. Christopher Brooks, Kem Saichaie, Christina I. Petersen, 2023-07-03 While Active Learning Classrooms or ALCs offer rich new environments for learning they present many new challenges to faculty because among other things they eliminate the room's central focal point and disrupt the conventional seating plan to which faculty and students have become accustomed. The importance of learning how to use these classrooms well and to capitalize on their special features is paramount. The potential they represent can be realized only when they facilitate improved learning outcomes and engage students in the learning process in a manner different from traditional classrooms and lecture halls. This book provides an introduction to ALCs briefly covering their history and then synthesizing the research on these spaces to provide faculty with empirically based practical guidance on how to use these unfamiliar spaces effectively. Among the questions this book addresses are: How can instructors mitigate the apparent lack of a central focal point in the space? What types of learning activities work well in the ALCs and take advantage of the affordances of the room? How can teachers address familiar classroom management challenges in these unfamiliar spaces? If assessment and rapid feedback are critical in active learning, how do they work in a room filled with circular tables and no central focus point? How do instructors balance group learning with the needs of the larger class? How can students be held accountable when many will necessarily have their backs facing the instructor? How can instructors evaluate the effectiveness of their teaching in these spaces? This book is intended for faculty preparing to teach in or already working in this new classroom environment for administrators planning to create ALCs or experimenting with provisionally designed rooms and for faculty developers helping teachers transition to using these new spaces.

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**Major descriptors**, 1970    **Research in Education**, 1971    **ENC Focus**, 2001    **Reader's Guide to Periodical Literature Supplement**, 1928    Teach Like a Champion Field Guide 2.0 Doug Lemov, Joaquin Hernandez, Jennifer Kim, 2016-09-13 The must-have companion workbook to the bestselling *Teach Like a Champion 2.0*. *Teach Like a Champion Field Guide 2.0* is the teacher's hands-on guide to improving their craft. In *Teach Like a Champion 2.0*, veteran teaching coach Doug Lemov updated, improved upon, and replaced the original edition of this global bestseller, setting forth 62 of the most rigorously vetted and critically observed teaching techniques. *Field Guide 2.0* is a practical workbook for these 62 techniques, outlining all the tools a teacher needs to make champion teaching a reality in their classroom, starting now. Coauthored by fellow educators Joaquin Hernandez and Jennifer Kim, the book is a practical guide for adapting the techniques to fit classrooms and teachers everywhere. With over 75 video clips of the techniques in play and 100 field-tested activities to boot, *Field Guide 2.0* is the professional development tool every school leader dreams of. It's the teaching playbook that every teacher, principal, and coach should have in their library, chock-full of actionable tools that unlock a

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