

# CELLULAR RESPIRATION

## Big Picture

Cells require chemical energy to function. Energy cannot be recycled, so organisms require a constant input of energy, which is why humans need to eat. The process that requires oxygen and converts food into chemical energy (in the form of ATP) is cellular respiration. Cellular respiration can be summarized by:



The general order of the processes is:

- Glycolysis
- Krebs Cycle
- Electron Transport Chain
- ATP Synthase

Realize that in general, the outputs of one process are the inputs of following processes. Knowing the inputs and outputs of each step is key to understanding cellular respiration!

## Key Terms

**Cellular Respiration:** Process in which cells break down glucose and make ATP for energy.

**Glycolysis:** First stage of cellular respiration in which glucose is split, in the absence of oxygen, to form two molecules of pyruvate (pyruvic acid) and two (net) molecules of ATP.

**Glucose:** Simple carbohydrate with the chemical formula  $C_6H_{12}O_6$  that is the nearly universal food for life.

**Pyruvic Acid (aka pyruvate):** A 3-carbon molecule that results from the splitting of glucose.

**ATP (adenine triphosphate):** Energy-carrying molecule that cells use to power their metabolic processes.

**ADP (adenine diphosphate):** The molecule that results from dephosphorylation (a phosphate group is removed).

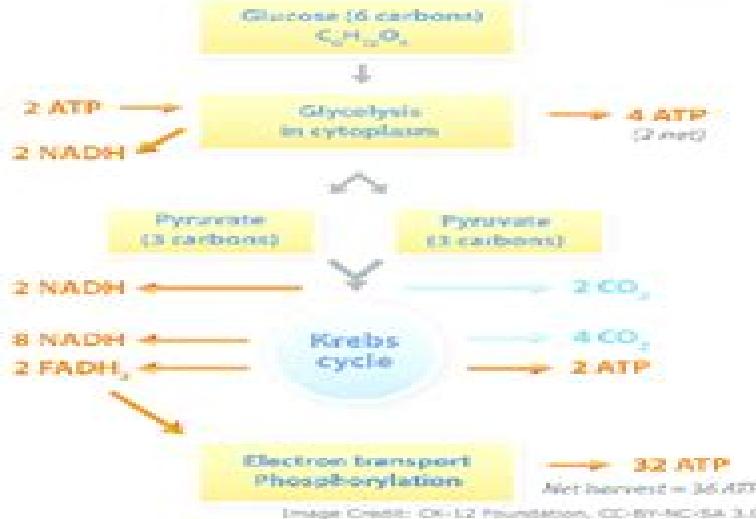


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**Krebs Cycle:** Second stage of aerobic respiration in which two pyruvate (pyruvic acid) molecules from the first stage react to form ATP, NADH, and FADH<sub>2</sub>.

**NADH:** Molecule that acts as an electron carrier in cellular respiration.

**Electron Transport Chain (ETC):** Series of electron-transport molecules that pass high-energy electrons from molecule to molecule and capture their energy.

**Anaerobic Respiration:** Type of cellular respiration that does not require oxygen.

**Aerobic Respiration:** Type of cellular respiration that requires oxygen.

**Mitochondrion (plural, mitochondria):** Organelle in eukaryotic cells that makes energy available to the cell in the form of ATP molecules.

**Fermentation:** A type of anaerobic respiration that allows ATP to be made through glycolysis.

## Notes

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# Cellular Respiration Lab 5 Teacher Guide

**Albert Kaskel**

## **Cellular Respiration Lab 5 Teacher Guide:**

**AP Biology** Deborah T. Goldberg, 2020-03-03 Barron's AP Biology With Two Practice Tests is revised to reflect all upcoming changes to the AP Biology course and the May 2020 exam. You'll get the in-depth content review and practice tests you need to fully prepare for the exam. This edition features Two full length practice exams in the book that follow the content and style of the revised AP Biology exam with detailed answer explanations for all questions. A fully revised introduction that covers the new exam format including the exam sections, the question types, the number of questions per section and the amount of time allotted per section. Helpful test taking tips and strategies throughout the book plus icons that designate sections with particularly helpful background information to know. 19 comprehensive review chapters that cover all of the major topic areas that will be tested on the exam including the Cell Cycle, Photosynthesis, Heredity and much more. End of chapter practice questions that reinforce the concepts reviewed in each chapter. Appendices with key measurements that you should be familiar with as well as a glossary of key terms and definitions.

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