

# AP Biology - Cellular Respiration-*Web Quest*

<http://www.zunal.com/tasks.php?w=19049>

The goal of this web quest is to learn to use multiple sources of information from the internet to research an idea. The questions below require a minimal to moderate amount of time to cover. I don't expect you to read over each and every part of each site that I send you to. Still, it is a quest in the fact that I am asking that you locate information from these sites, and some of this information is not going to be right in front of you. Thus, it might take you a few minutes to find what you are looking for. Don't spend more than 10 minutes at any one site. Some sites should take you no more than a minute or two. Write down your answers on a separate sheet of paper.

## A) [About: Cellular Respiration](#)

- 1A) In your own words, what is ATP?
- 2A) Draw a picture of the ATP molecule on your paper.

## B) [Wikipedia: Cellular Respiration](#)

- 1B) Write the equation for cellular respiration.

## C) [Pagewise: Cellular Respiration](#)

- 1C) What are the three steps of cellular respiration?
- 2C) List an alternative to cellular respiration.

## D) [Prentice Hall: Cellular Respiration](#)

- 1D) Click on Concept 1. Draw the picture.
- 2D) Click on Concept 2. Draw the picture..
- 3D) Click on Concept 3. Draw the picture.

## E) [UIC – Energy Pathways](#)

- 1E) How many ATP's & NADH's are produced from Glycolysis?
- 2E) How many ATP's, NADH's, & FADH<sub>2</sub>'s are produced from the Krebs Cycle?
- 3E) How many ATP's are produced from the electron transport chain?

## F) [Cellular Respiration and Fermentation](#)-and- [Fermentation Tutorial](#)

- 1F) What is the difference between ethanol fermentation and lactic acid fermentation?
- 2F) Use the Fermentation Tutorial. How do bacteria survive without oxygen? Explain what anaerobic respiration means.

## G) [Wikipedia: Cellular Respiration](#)

- 1G) How many total ATP's are produced from cellular respiration? (hint-Start searching from the bottom of the page)
- 2G) How many ATP's come from one NADH? How many ATP's come from one FADH<sub>2</sub>'s?
- 3G) What is the final electron acceptor in the Electron Transport Chain?