

Cellular Respiration WebQuest

Name: _____ Date: _____ Pd: _____

ATP – The Energy of Life: Go to *Biology in Motion* (<http://www.biologyinmotion.com/atp/index.html>). Read & complete the activity.

1. What is ATP?
2. How are the foods that we eat and ATP related?
3. THINK: ATP provides the body with energy. Give 3 examples of how ATP is used in organisms.

Cellular Respiration – Overview: Go to *Understanding Cellular Respiration* (<http://www.essortment.com/all/cellularrespiration.html>). Read through the information provided.

4. Where in the cell does respiration occur?
5. Write the equation for aerobic cellular respiration.
6. What are the three steps of cellular respiration?
7. List an alternative to cellular respiration.

Cellular Respiration – A Closer Look: Go to *BioCoach Activity Cell Respiration* (http://phschool.com/science/biology_place/biocoach/cellresp/intro.html). Click on each concepts and answer the following questions.

8. Click on Concept 1 & 2. Where does glycolysis occur? What is the function of this stage of respiration?

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9. Click on Concept 3. Read through the information on the Krebs (Citric Acid) Cycle. Click "Review" in the top right corner and then summarize this stage in your own words.

10. Click on Concept 4. Summarize the purpose of the Electron Transport Chain in your own words.

Fermentation: Go to *Cellular Respiration* (http://en.wikipedia.org/wiki/Cellular_respiration). Read about fermentation.

11. Explain the difference between ethanol fermentation and lactic acid fermentation.

Cell Respiration – A Summary: Go to *About.com, Biology, Cellular Respiration* (<http://biology.about.com/library/weekly/aa090601a.htm>). Read about ATP yields.

12. How many ATPs are produced total in cellular respiration?

Cellular Respiration – Quiz: Go to *About.com, Biology, Cellular Respiration Quiz* (<http://chemistry.about.com/od/testsquizzes/l/blcellularrespirationquiz.htm>) Take the quiz. In the space below, or on the another sheet of paper, write the question number followed by the correct answer.