Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Adopted from Ms. Bethel

Queensbury Middle School

**Cell Respiration Webquest**

***Directions:****Use the links provided throughout the quest to help answer the questions on this paper.*

**Part I: Function and equation for respiration:**

1. Click on the following links and use the information provided to write a

definition of cellular respiration in your own words.

* [BioCoach: Cell Respiration](http://phschool.com/science/biology_place/biocoach/cellresp/intro.html" \o "biocoach cell resp" \t "_blank)
* [Miller/Levine Book Resource](http://www.millerandlevine.com/chapter/9/index.html" \o "ML Resp" \t "_blank)

2. Write the chemical equation for cellular respiration.

[Find the equation](http://www.biology.iupui.edu/biocourses/N100/2k4ch7respirationnotes.html" \o "Bio notes" \t "_blank)

What are the reactants?

What are the products?

Where have you seen something like this equation before?  Explain.

3.  How does the equation for cellular respiration compare with the

equation for photosynthesis?

5.  What is ATP?  Why is it an important product of cellular respiration?

* [ATP Info](http://users.rcn.com/jkimball.ma.ultranet/BiologyPages/A/ATP.html)

**Part II: Main Site of Cellular Respiration:**

Use the following link to answer questions 8-10:

[organelle of respiration](http://www.biology4kids.com/files/cell_mito.html" \o "mito" \t "_blank)

8. What is the main site of respiration in the cell?

9. Draw a picture of the respiration site

and label major parts on the right.

10.  What energy molecules are produced in this

respiration organelle?

* [anaerobic vs. aerobic: Buzzle article](http://www.buzzle.com/articles/aerobic-and-anaerobic-respiration.html)

11.  What is the difference between aerobic and anaerobic cellular

respiration?

12. Click on the “Cellular respiration” link and scroll down to

fermentation.

* [Cellular respiration](http://biology.clc.uc.edu/Courses/bio104/cellresp.htm)

What is lactic acid fermentation?  Where does it occur?

13.  What does a build up of lactic acid cause?

14. What is alcoholic fermentation?

15. In what industry is alcoholic fermentation important?

**Part III: Summary:**

17. Write a summary of cellular respiration.  In your response:

* + State the function of cellular respiration
  + Identify the site of cellular respiration
  + Compare aerobic and anaerobic forms of cellular respiratio