

Name: \_\_\_\_\_ Hour: \_\_\_ Date: \_\_\_\_\_

## Cellular Respiration Webquest

Website 1: [http://www.phschool.com/science/biology\\_place/biocoach/cellresp/intro.html](http://www.phschool.com/science/biology_place/biocoach/cellresp/intro.html)

1. What is cellular respiration?

2. List the 3 metabolic processes of cellular respiration and the location for each.

3. In glycolysis, the \_\_\_\_-carbon sugar, glucose, is broken down into \_\_\_\_\_ molecules of a \_\_\_\_-carbon molecule called pyruvate. This change is accompanied by a net gain of \_\_\_ ATP molecules and \_\_\_\_\_ NADH molecules.

4. Where does the Krebs cycle occur?

5. What does the Krebs cycle generate?

6. What does the electron transport chain allow?

7. The energy released from the electron transport chain is released in what form?

8. All cells are able to synthesize ATP via the process of glycolysis. Where does glycolysis occur?

9. How many molecules of ATP can be generated from one molecule of glucose in aerobic respiration?

10. How many molecules of ATP can be generated from one molecule of glucose in respiration without oxygen?

11. What is respiration without oxygen called?

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## Cellular Respiration Webquest

Website 2: <http://www.biologyinmotion.com/atp/index.html>

Go to Biology in Motion

Read & complete the activity.

12. What is ATP?

13. How are the foods that we eat and ATP related?

14. THINK: ATP provides the body with energy. Give 3 examples of how ATP is used in organisms.

Website 3: <https://www.ck12.org/book/CK-12-Biology/section/4.3/>

Powering the Cell: Cellular Respiration

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