

## Biology Chapter 9: Krebs Cycle Worksheet

1. In order to produce energy, cells start with glycolysis. If oxygen is NOT present after glycolysis, what process occurs next?

Electron Transport Chain                  Krebs Cycle                  Fermentation

2. If oxygen IS present after glycolysis, what process occurs next?

Electron Transport Chain                  Krebs Cycle                  Fermentation

3. A process that does NOT require oxygen is known as what?

Aerobic                                          Anaerobic

4. Which of the following processes are anaerobic (more than one may be circled)?

Electron Transport Chain                  Krebs Cycle                  Fermentation

5. A process that does require oxygen is known as what?

Aerobic                                          Anaerobic

6. Which of the following processes are aerobic (more than one may be circled)?

Electron Transport Chain                  Krebs Cycle                  Fermentation

7. What are the products of glycolysis?

8. Which product from glycolysis enters the Krebs Cycle?

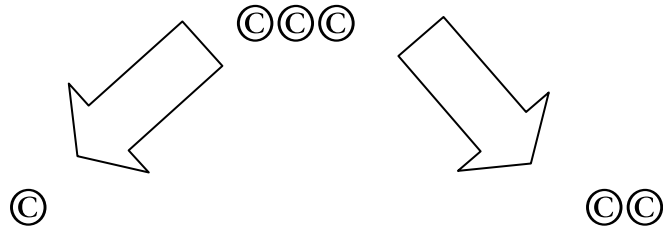
9. Does the Krebs Cycle require oxygen?

Yes                                                  No

10. What is the other name of the Krebs Cycle?

11. Where does the Krebs Cycle take place?

12. Label the below diagram showing the break-up of pyruvic acid into two compounds.



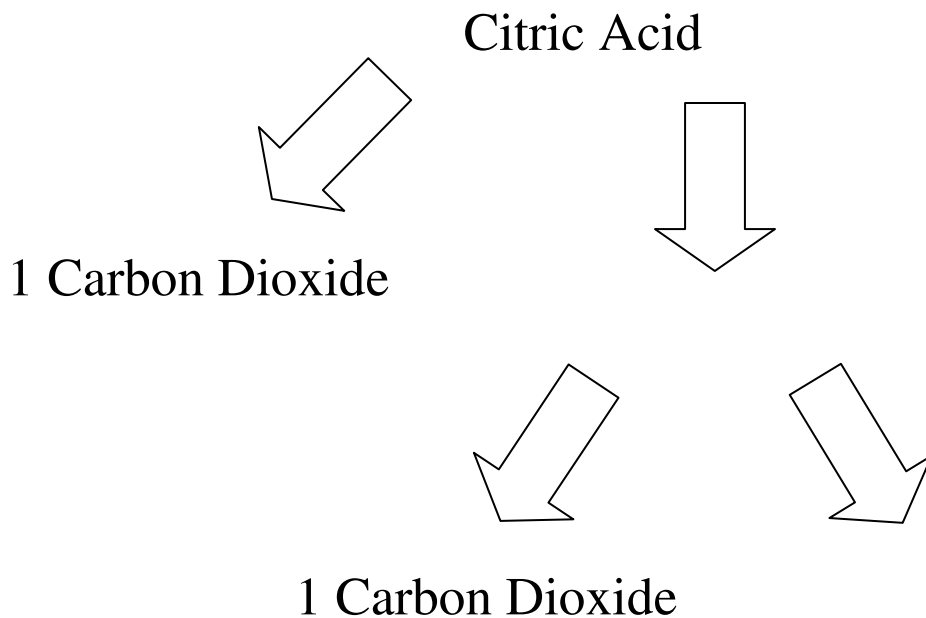
13. The acetyl group combines with what to form acetyl-CoA?

14. What two compounds combine to form citric acid?

15. How many carbons are in citric acid?

16. Where do those carbons come from?

17. Indicate the number of carbon atoms at each step in the breakdown of citric acid.



18. How many NADH's and FADH<sub>2</sub>'s are created? Where are they created?

19. How many ATP's are created? Where are they created?