

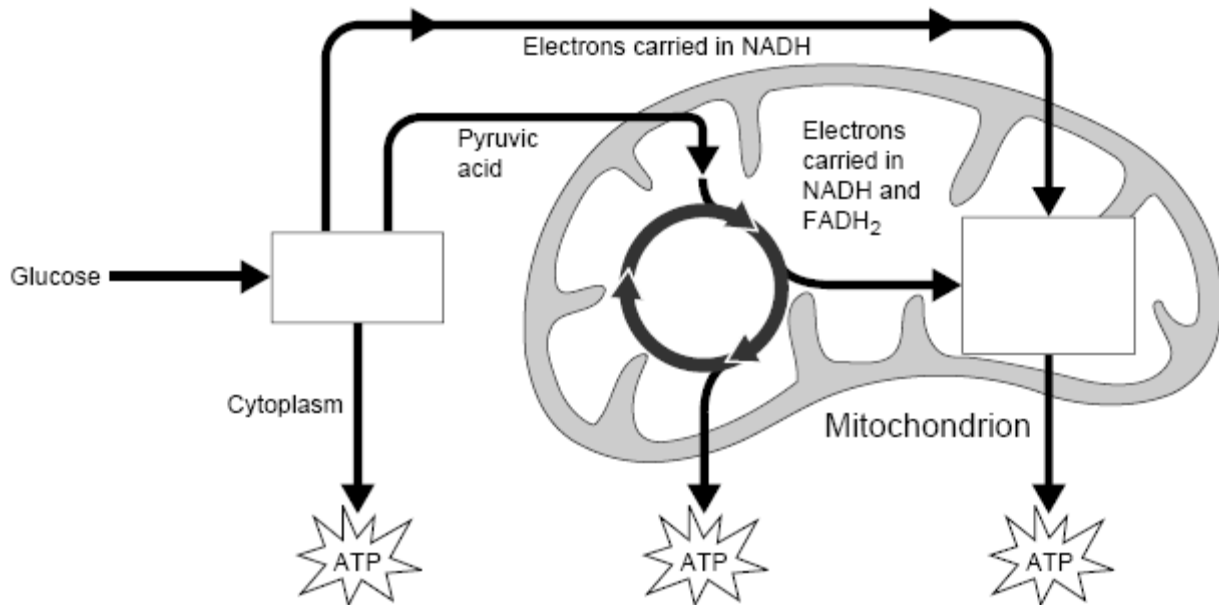
Worksheet: Cellular Respiration & Cell Energy

BIOLOGY

Directions: Answer the following questions using your class notes and textbook.

Chemical Energy and Food

1. What is a calorie?
2. How many calories make up 1 Calorie?
3. Cellular respiration begins with a pathway called _____
4. Is the following sentence true or false? Glycolysis releases a great amount of energy. **T / F**
5. What is cellular respiration?
6. What is the equation for cellular respiration, using chemical formulas?
7. Label the three main stages of cellular respiration on the illustration of the complete process.



8. Where does glycolysis take place?
9. Where do the Krebs cycle and electron transport take place?

10. What is **glycolysis**?

11. How does the cell get glycolysis going?

12. If the cell uses 2 ATP molecules at the beginning of glycolysis, how does it end up with a net gain of 2 ATP molecules?

13. What is **NAD⁺** ?

14. What is **fermentation**?

15. How does fermentation allow glycolysis to continue?

16. Because fermentation does not require oxygen, it is said to be _____.

17. What are the two main types of **fermentation**?

18. Because the final stages of cellular respiration require oxygen, they are said to be _____.

19. Why is the **Krebs cycle** also known as the **citric acid cycle**?

20. What is the total number of **ATP** molecules formed during cellular respiration?