Cellular Respiration Activity

1. What is the chemical formula for cellular respiration?
   \[ \text{ } + \text{ } \rightarrow \text{ } + \text{ } + \text{ } + 36 \text{ } \]

2. In what organelle does oxidative respiration take place? 

3. Where does glycolysis take place? 

4. Is oxygen required for glycolysis to happen? 

5. How many net ATPs are created in glycolysis? 

6. What type of acid is created in glycolysis? 

7. When \[ \text{ } \] acid enters the mitochondria, what gas is formed? 

8. Then an enzyme joins the two carbons to form what? 

9. How many ATPs are made in Krebs Cycle? 

10. What does NADH and FADH\(_2\) power? 

11. Each NADH powers how many proton pumps? 

12. Each FADH\(_2\) powers how many proton pumps? 

13. The high-energy electron that powers the electron transport chain is stored by forming what molecule? 

14. What causes the hydrogen ions to go through ATP synthase? 

15. How many total ATPs are made during oxidative respiration? 

16. If oxygen is not present, what happens? 

17. What does anaerobic mean? 

18. Anaerobic respiration in plants makes what? in animals? 

19. How many ATPs are created in anaerobic respiration? 

20. Does anaerobic respiration take place inside the mitochondria?