



Aerobic Vs Anaerobic Respiration Worksheet









1 KEY TERMS

Write the meaning of each term.

Aerobic respiration	
Anaerobic respiration	
Glucose	
Oxygen	
Mitochondria	
Lactic acid	
Ethanol	

2 COMPARE AND CONTRAST

Complete the table to compare aerobic and anaerobic respiration.

Feature	Aerobic Respiration	Anaerobic Respiration
Oxygen required? 		
Where in the cell does it occur? 		
Starting molecule 		
End products 		
Energy (ATP) produced per glucose 		
When does it typically occur? 		

3 EQUATIONS

Write the word equation and balanced chemical equation for each type.

Aerobic Respiration
Word equation: _____
Balanced equation: _____

Anaerobic Respiration (Lactic Acid)
Word equation: _____
Balanced equation: _____

Anaerobic Respiration (Ethanol)
Word equation: _____
Balanced equation: _____

4 APPLY YOUR KNOWLEDGE

Answer the following questions.

- Why is oxygen required for aerobic respiration but not for anaerobic respiration?

- Why does anaerobic respiration produce much less ATP than aerobic respiration?

- Give one example of when your body might use anaerobic respiration.

5 THINK CRITICALLY

Circle the best answer and explain your choice.

You are sprinting to catch a bus. Which type of respiration is your muscle cells most likely using? Aerobic / Anaerobic

Explain: _____

