Aerobic Respiration:	Anaerobic Respiration
Read pages 226-229 and answer the questions below. 1. At the end of glycolysis, 90% of the chemical energy is still locked in the high-energy electrons of	Read Pages 221-225 and answer the questions below. Chemical Energy and Food (Page 221) 1. What is a calorie?
2. Because the final stages of cellular respiration require oxygen, the are said to be?	2. Cellular respiration begins with a pathway called?
The Krebs Cycle (pages 226-227)	
3.In the presence of oxygen, Krebs cycle breaks pyruvic acid into	 True or False – Glycolysis releases a great amount of energy. Overview of Cellular Respiration (page 222)
4. Krebs cycle is also known as the	4. What is cellular respiration?
5. Krebs cycle begins when pyruvic acid enters the	
6. During Krebs cycle, pyruvic acid makes what 4 molecules? A. Carbon dioxidie, NADH, ATP and FADH ₂	5. What is the equation of cellular respiration?
B. Oxygen, ADP, NAD and FADH	6. Where does glycolysis take place?
C. Carbon dioxide, NADH, ADP and FADH	
7. Every time you exhale carbon dioxide you expel the products of	Gylcolysis (page 223)
	7. What is glycolysis?
8. High energy electron carriers NADH and FADH ₂ , in the presence	
of oxygen can be used to generate amounts of	
ATP.	8. If the cell uses 2 ATP molecules at the beginning of glycolysis,
Electron Transport Chain (pages 228-229)	how does it end up with a net gain of 2 ATP molecules?
9. What is the electron transport chain?	
10. How does the location of the electron transport chain differ in eukaryotes (animals, fungi, protists and plants) than prokaryotes (bacteria)?	9. Why can glycolysis supply energy to cells when oxygen is not available? ———————————————————————————————————
11. At the end of the electron chain an enzyme combines hydrogen	Fermentation (pages 224-225)
ions and oxygen to form	10. What is fermentation?
12. Hydrogen ions build up on one side of the membrane and then move across the membrane through a protein channel called	11. Because formentation does not require everyon it is sold to be
13. When ATP synthase spins it converts ADP into high energy	11. Because fermentation does not require oxygen, it is said to be
·	12. What are the two main types of formantation
14. What is the total number of ATP produced in Cellular	12. What are the two main types of fermentation A B
Respiration?	л D

