Name:	Dat	e:	Period: _
Cellular Respiration Intro			Week #_
Directions: Read p. 250 - 252.	Then answer the quest	ions below.	
Question		Description	
What do food molecules contain? (p.250)			
Where do organisms get energy? (p.250)			
What does a calorie refer to? (not the definition) (p.250)	D		
What do cells use the energy stored in food for? (p.250)	E CO		
What is cellular respiration? (p.251)	K		
What is the formula for cellular respiration? (p.251)	In symbols:		
	In words:		
What does the double meaning of respiration refer to? (p.252)			
What organelle does cellular respiration occur in? What does this organelle do? (p.252)	HIGH 5		
Check for Understanding			
1. In your own words, what is	the goal of cel <mark>lul</mark> ar res	piration?	
2. What types of organisms do	cellular respiration?		
a. Circle one:	Autotrophs	Heterotrophs	All organisms
b. Explain your choice	:		

Name:	Date:	Period:
The Mystery of the Seven Deat	ths: A Case Study in Cellular Respiration	
Directions: Read and annotate	each section. Then answer the questions.	
parents gave her one Extra-Stresame day, paramedics were call they arrived, his breathing was Adam to the hospital but it was brother Stanley and his wife, Tof Extra Strength Tylenol. He and his wife collapsed onto the revive the young couple, howe	ength Tylenol capsule. The next morning, they found Meled to the Arlington Heights home of 27-year-old Adamstrained and his blood pressure was very low. The part too late. The next day, as Adam's family gathered at theresa, both had a headache from the stress. Stanley for took a capsule and then gave one to his wife. Soon after floor. Once again paramedics rushed to the home and ver, they both died hours later.	Mary dead. On the n Janus. When amedics rushed nis house, his bund Adam's bottle er, both Stanley
the heart, lungs, kidneys, and li mitochondria damage and very	each of the Januses died of suffocation, or lack of oxy iver all showed massive cell death. Analysis of cells show levels of ATP. Interestingly, oxygen levels in the ait, what is the function of mitochondria?	lowed major
3 Given the data in the autons	y, what finding seems inconsistent with the cause of de	ath?
5. Given the data in the datops	, what imaking seems inconsistent with the cause of de-	
examined the Tylenol bottles at maker of Tylenol, Johnson & Johnso	cyanide poison was to blame. The Cook County toxicond discovered that they were filled with deadly amount ohnson, was alerted to the deaths and began a massive fore all of the contaminated Tylenol could be recalled. ought the Tylenol, filled the capsules with cyanide, and al? Cyanide interferes with cellular respiration. In orderergy from the sugars in food. In cellular respiration, the to obtain the energy from sugar. Cyanide molecules like oxygen. If oxygen and cyanide molecules are branide molecules first, instead of oxygen. Since cyanide respiration process. With its respiration mechanism classes person dies as well. About the action of cyanide on cellular respiration, explain while their blood oxygen levels were normal.	s of cyanide. The recall. However, Chicago police I returned them. er to survive, cells cells use oxygen es disrupt cellular poth present in the le is not the same ogged, the cell dies
5. Explain why the autopsy res	ults indicate very low levels of ATP in the mitochondri	a.