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Respiration Notes

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### **Chapter 09 - Cellular Respiration | CourseNotes**

□ Respiration occurs in  
three metabolic stages:  
glycolysis, the citric  
acid cycle, and the  
electron transport

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chain and oxidative phosphorylation. o Biochemists usually reserve the term cellular respiration for stages 2 and 3. o Glycolysis is included here because most respiring cells deriving energy from glucose use glycolysis to produce starting material for the citric acid cycle.

### **Chapter 9: Cellular Respiration and**

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**Fermentation**

Name: \_\_\_\_\_ Date:

\_\_\_\_\_ ! 1 Chapter 9

Notes - Cellular

Respiration Section 9-1

Chemical Pathways (p.  
221-225)

**Chapter 9 Notes -  
Cellular Respiration**

Chapter 9 Cellular

Respiration: Harvesting

Chemical Energy

Lecture Outline .

Overview: Life Is Work.

To perform their many

tasks, living cells



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require energy from outside sources.

Energy enters most ecosystems as sunlight and leaves as heat.

### **Chapter 09 - Cellular Respiration: Harvesting Chemical**

...

Biology Chapter 9  
Cellular Respiration.  
calorie. cellular  
respiration. aerobic  
respiration. anaerobic  
respiration. amount of  
energy needed to raise

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the temperature of 1 gram of.... process that releases energy by breaking down glucose and othe.... respiration process that requires oxygen.

### **biology notes**

### **vocabulary chapter**

### **9 cellular respiration**

...

Section: 9.1 8) The oxygen consumed during cellular respiration is directly involved in which of

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the following processes or events? A)

glycolysis; B) accepting electrons at the end of the electron transport chain; C) the citric acid cycle; D) the oxidation of pyruvate to acetyl CoA; Answer: B.

Bloom's Taxonomy: Knowledge/Comprehension. Section: 9.1

### **Chapter 9 Cellular Respiration and Fermentation - eBooks ...**

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Chapter 9-Cellular  
Respiration/Notes.

I. Chemical Pathways.

Food serves as a source of raw materials for molecular synthesis and energy. Chemical Energy and Food. 1 g glucose when burned in the presence of O<sub>2</sub> releases 3811 calories of heat energy.

### **Chapter 9-Cellular Respiration/Notes - City Schools**

Vocabulary terms from

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Chapter 9 of Prentice Hall Biology. ALSO A HARD CHAPTER! It covers the process of cellular respiration that cells of heterotrophs undergo. Tip: If you're unlucky enough to have photosynthesis and cellular respiration together on a test (like me), to keep from getting confused, just remember that between  $\text{NADP}^+$  and  $\text{NAD}^+$  the "P" stands for "plants" or

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"photosynthesis", so the  $\text{NAD}^+$  is with cellular respiration.

### **Chapter 9: Cellular Respiration Flashcards | CourseNotes**

Biology Chapter 9  
Study Guide. calorie.  
glycolysis. equation for  
cellular respiration.  
 $\text{NAD}^+$  (nicotinamide  
adenine dinucleotide)  
The amount of energy  
required to raise the  
temperature of 1 gr....

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First step in releasing the energy of glucose, in which a mole....  
oxygen + glucose --->  
carbon dioxide + water  
+ energy.

### **Biology Cellular Respiration Study Guide**

Cellular Respiration uses oxygen (O<sub>2</sub>) from the environment, and thus it is aerobic. Each pyruvate molecule is completely converted into three molecules of

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## Chapter 9 Cellular Respiration Notes

carbon dioxide (CO<sub>2</sub>) through a set of metabolic pathways including pyruvate oxidation, the citric acid cycle, and an electron transport system (the respiratory chain).

### **chapter 9 - chemical energy (notes)**

#### **Flashcards | Quizlet**

Study Guide Chapter 9

Cellular Respiration

Flashcards. Primary

tabs. [View](#) (active tab



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... Terms : Hide

Images. 554480168:

Overall equation for cellular respiration:  $C_6H_{12}O_6 + 6O_2 \rightarrow 6H_2O + 6H_2O + ATP$ :

554480169: Name the proper chemical formula of the products in the equation for cellular respiration. ...  
If you need to contact the Course-Notes.Org ...

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*Page 17/26*

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**Respiration  
Flashcards ...**

Chapter 9 (Cellular Respiration and Fermentation Lecture Notes - HIGHLIGHTED  
Overview: Life Is Work  
Cells harvest the chemical energy stored in organic molecules and use it to regenerate ATP, the molecule that drives most cellular work.

**CHAPTER 9  
CELLULAR**

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**RESPIRATION:  
HARVESTING  
CHEMICAL ENERGY**

Chapter 9 notes

Cellular Respiration:

Harvesting Chemical

Energy Concept 9.1

Metabolic pathways

that release energy are

called catabolic

pathways -

fermentation and

cellular respiration

\_\_\_\_\_: partial

degradation of sugars

that occurs w/out the

help of O<sub>2</sub> \_\_\_\_\_: O<sub>2</sub> is

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consumed as a reactant along w/ the sugar - more efficient  
Concept 9.1 Cellular respiration occurs in the \_\_\_\_\_  
Organic + O<sub>2</sub> ?

### **Chapter 9 Notes | CourseNotes**

Amount of energy needed to raise temperature 1 gram of water 1.... cellular respiration. Process that releases energy by breaking down glucose

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and othe.... 50 Terms.  
pnatarajan213. Miller  
and Levine Biology  
Chapter 9 Cellular  
Respiration and  
Fermentation. What is  
the molecule that acts  
as the l....

## **notes chapter 9 cellular respiration miller levine ...**

Cellular Respiration  
Notes. Wait just a  
minute here... In order  
to access these  
resources, you will

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need to sign in or register for the website (takes literally 1 minute!) and contribute 10 documents to the CourseNotes library. Until you contribute 10 documents, you'll only be able to view the titles and some teaser text of the uploaded documents.

### **Cellular Respiration Notes | CourseNotes**

Start studying Bio 1107

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## Chapter 9 Cellular Respiration Notes

Chapter 9: Cellular Respiration and Fermentation. Learn vocabulary, terms, and more with flashcards, games, and other study tools.

### **Bio 1107 Chapter 9: Cellular Respiration and Fermentation ...**

- A more efficient and widespread catabolic process, cellular respiration, consumes oxygen as a reactant to complete the

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### Respiration Notes

breakdown of a variety of organic molecules. °

In eukaryotic cells, mitochondria are the site of most of the processes of cellular respiration. • Cellular respiration is similar in broad principle to the combustion of gasoline in an automobile engine after oxygen is mixed with

hydrocarbon fuel. °

Food is the fuel for respiration. The exhaust is carbon



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dioxide and water.

**Chapter 9 Notes -  
[CAMPBELL BIOLOGY  
CHAPTER 9 NOTES ...**

Chapter 9 -Cellular  
Respiration and  
Fermentation\*.

\*Lecture notes are to  
be used as a study  
guide only and do  
not represent the  
comprehensive  
information you will  
need to know for. the  
exams. Overview : Life  
Is Work. Living cells

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need energy to perform their tasks, such as creating polymers (Figure 9.1).

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