



Teacher Copy

(all questions are one point unless otherwise stated.)

## Cellular Respiration Homework and Study Guide

**Directions:** Below you will find a variety of questions on cellular respiration. As you will soon notice, the questions are of varying formats. For short answer questions, please write in complete sentences. For true/false questions, first determine if the statement is true or false. If the statement is false, correct the underlined word to make the statement true. As we cover this material on cellular respiration, you will be assigned some of these questions each night. When this assignment is complete, you will have a great study guide for the unit test.

1. What is cellular respiration?

(3 pts)

**The process of releasing energy by the breaking down glucose or other food molecules in the presence of oxygen.**

2. adenosine diphosphate What does ADP stand for?

3. adenosine triphosphate What does ATP stand for?

4. ADP Which molecule is energy-poor?

5. ATP Which molecule is energy-rich?

6. An ADP/ATP molecule consists of what three parts? Label these three parts in this diagram.

(3 pts)

chain of three phosphate groups



adenine, a nitrogenous base

ribose, a 5-carbon sugar

Is the molecule in this diagram ADP or ATP? How do you know?

(2 pts)

**ATP, there are three phosphates**

7. What role does ADP/ATP play in living cells?

**basic unit of energy**

8. Explain how energy is stored and released by ADP and ATP.

(2 pts)

**stored: by adding a phosphate group to ADP forming ATP**

**released: removing the third phosphate group from ATP creating ADP**

# Cellular Respiration Study Guide Key

**RD Boyd**



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