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Energy and ATP What is ATP?  
Notes Section 4.1 Chemical  
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~~Key Biology Subjects~~  
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Unit 04 A. Chemical Energy and  
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Mitochondria Produce Energy  
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Energy

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What Is ATP \u0026amp; How Does

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~~ATP Work During Exercise? ATP in  
Photosynthesis ATP PC System  
Chemical energy What is ATP?~~

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~~What is The ATP Cycle? ATP  
Structure and Energy Chapter  
4.1 Chemical Energy and ATP  
Cellular Respiration and the  
Mighty Mitochondria 4 1 Chemical~~

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## *Energy and ATP*

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*Chemical Energy and ATP*

## **Chemical Energy and ATP**

Chemical Energy and ATP

## **Chemical Energy And Atp Answer**

ATP is a high energy molecule



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that is converted into lower-energy ADP when a phosphate group is removed and energy is released. ADP is converted back into ATP by addition of a phosphate group Cycle Diagram-relationship between ATP and ADP The carbon-based molecules

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that are broken down to make  
ATP

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Key Binary Subjects  
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## **Worksheet: Chemical Energy & ATP Flashcards | Quizlet**

a process by which some  
organisms uses chemical energy

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Key Ding Subjects  
instead of light energy to make energy-storing carbon based molecules The removal of the third phosphate group from ATP involves what? break down food, photosynthesis, and chemosynthesis

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## **4.1 Chemical Energy and ATP Flashcards | Quizlet**

KEY CONCEPT All cells need chemical energy. All cells need chemical energy for their functions. The energy that your cells need comes indirectly from the food you eat. The chemical

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energy used by all cells is carried by a molecule called adenosine triphosphate, or ATP. ATP is a molecule that transfers energy from the breakdown of molecules in food to cell processes. A molecule of ATP has three phosphate groups. The energy

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Key by ATP is

## **Study Guide 4.1: Chemical Energy and ATP**

Cells and Energy . Study Guide B .  
Answer Key . SECTION 1.

CHEMICAL ENERGY AND ATP . 1.  
adenosine triphosphate (ATP) 2. a

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molecule that transfers energy from the breakdown of food molecules to cell processes . 3. ATP is a high-energy molecule that is converted into lower-energy ADP when a phosphate group is removed and energy is released.



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## **Chemical Energy And Atp Worksheets - Kiddy Math**

Which of the following is true about chemical energy? A. Chemical energy can only be stored as ADP. B. Chemical

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energy can be stored more efficiently as glucose than it can be as ATP. C. Chemical energy is released when bonds in ADP are broken to form ATP. D. Chemical energy is stored when bonds in ATP are broken to form ADP.

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**Which of the following is true about chemical energy? A ...**

A cell uses ATP to carry energy, which is released as needed to drive chemical reactions and work. A mutation is found that prevents #2 but not #1. Which of the following is the best

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Key Biology Books  
hypothesis for which protein is mutated? O ATP cannot be synthesized from ADP and P, due to a mutation in ATP synthase.

## **A Cell Uses ATP To Carry Energy, Which Is Released ...**

The channel is part of ATP

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synthase, which produces ATP 1. carbon dioxide molecules enter the Calvin cycle 2. energy added to molecules in the cycle; molecules rearranged into higher-energy molecules 3. high-energy three-carbon molecule leaves the cycle; two are bonded together to

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make a six-carbon sugar 4.

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What are two ways in which the diagram shows an increase in energy? When a phosphate group breaks off an ATP molecule, the



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remaining ADP molecule stores very little energy, like a discharged battery. When a phosphate group is added to ADP, the resulting ATP molecule stores a great deal more energy, like a recharged battery.

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## **8.1 energy and life reading outline answers Flashcards ...**

Solution for What about the structure of ATP makes it effective at storing free energy?  
b. Define what is meant by an endergonic or exergonic reaction.  
C....

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adenosine triphosphate

adenosine diphosphate tri=3

di=2. 4.1 Chemical Energy and

ATP. • Fats store the most

energy. -80 percent of the energy

in your body -about 146 ATP from

a triglyceride • Proteins are least

likely to be broken down to make

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ATP. –amino acids not usually needed for energy –about the same amount of energy as a carbohydrate. 4.1 Chemical Energy and ATP.

## **4.1 Chemical Energy and ATP**

Adenosine triphosphate, or ATP, is

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the primary carrier of energy in cells. The water-mediated reaction known as hydrolysis releases energy from the chemical bonds in ATP to fuel cellular processes.

**adenosine triphosphate |**

*Page 30/40*

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## **Definition, Structure, Function ...**

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## **With Answers - TecAdmin**

ATP and NADPH are forms of chemical energy produced from the light dependent reactions to be used in the light Independent reactions that produce sugars. 2. ATP and NADPH are forms of chemical energy produced from

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the light independent reactions,  
to be used in the light dependent  
reactions that produce sugars. 3.

**Solved: What Is The Primary  
Energy Source For Cells? 1. Su**

...

Worksheet: Chemical Energy and

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ATP BIOLOGY Directions:

Answer the following questions using your class notes and textbook. (pages 100-102) 1.

What type(s) of carbon-based molecules (organic compounds) are the source for most of the energy in the foods you eat? 2.

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Where is the energy stored in these molecules? 3. What is ATP?  
4.

## **worksheet chemical energy and ATP - Triton Science**

Equation 1:  $\text{ATP} + \text{H}_2\text{O} \rightarrow \text{ADP} + \text{P}_i$   
 $\Delta G^\circ = -7 \text{ kcal/mol}$  Equation 2:

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phosphoenolpyruvate + H<sub>2</sub>O →  
pyruvate + Pi  $\Delta G_2 = -14.8$

kcal/mol Equation 3: glucose + Pi  
→ glucose-6-phosphate + H<sub>2</sub>O  
 $\Delta G_3 = +3.3$  kcal/mol

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