



# CELL ENERGY WEBQUEST

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

## Task 1 – ATP Video Tutorial



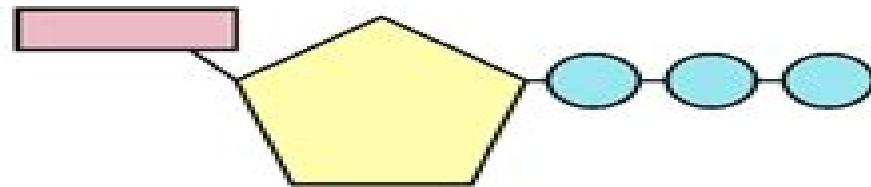
Watch the What is ATP? video by the Amoeba Sisters on YouTube and answer the following questions.

Full URL: <https://www.youtube.com/watch?v=23zz16WZS28&v=en>

Tiny URL: <https://tinyurl.com/yajqgnx>

1. What type of biomolecule is ATP?
2. What is the full name of ATP?
3. What is the name of the base in ATP?
4. What is the name of the sugar in ATP?
5. Label the ATP diagram with the name of each component.
6. What does ATP lose when it is hydrolyzed?
7. What molecules does ATP become after it is hydrolyzed?
8. Is energy released or stored when ATP is hydrolyzed?
9. What are some examples of cell processes that use ATP?

ATP Diagram



## Task 2 – Introduction to Cellular Respiration Article

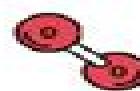


Read the Cellular Respiration article on the CK12 website and answer the following questions.

Full URL: <https://enwww.ck12.org/book/ck-12-life-science-for-middle-school/section/4.3/>

Tiny URL: <https://tinyurl.com/2p5nf6uh>

10. What is cellular respiration?
11. What is the overall chemical equation for respiration?
12. Where does cellular respiration begin?



# Atp The Energy Of Life Webquest Answers

**R. Rodrigo Panares**

## Atp The Energy Of Life Webquest Answers:

**Life's Energy** Stefan Bröer, 2022-11-20 What energises humans to move and think Whether we wake up groggy and say that we have no energy to do anything or whether we wake up refreshed and feel ready to tackle the day scientists and non scientists alike acknowledge that energy is essential for anything to happen However not everyone knows and digs deeper into what energy actually is In the human body energy can be followed by looking at one molecule In Life's Energy the reader is guided through our bodies molecular world to understand of how a single molecule Adenosine Triphosphate ATP can drive life The book goes back in history to see how ATP was discovered Then it follows ATP around the body and explains what it does how it is maintained and explores its role in diseases such as diabetes and cancer Along the way it introduces the scientists involved in ATP research how their research activity was affected by the rise of the Third Reich and why many of them were awarded Nobel Prizes for their insights     *Energy And Life* John Wrigglesworth, 1997-07-02 Energy and Life addresses the subject of energy in biological systems It concentrates on the way in which energy flow through plants animals and bacteria drives the primary processes of life such as metabolism movement and ion transport It deals with living systems from a whole body approach for example in starvation and obesity to the cellular and molecular level where modern advances in biochemistry and molecular biology are revolutionising our knowledge of how molecular machines work Extensive illustrations concept boxes summary sections suggested further reading lists as well as questions and answers aid with the presentation of a sometimes daunting yet fascinating area of biological science     *Energy, Organization, and Life* R. Rodrigo Panares, 1967

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