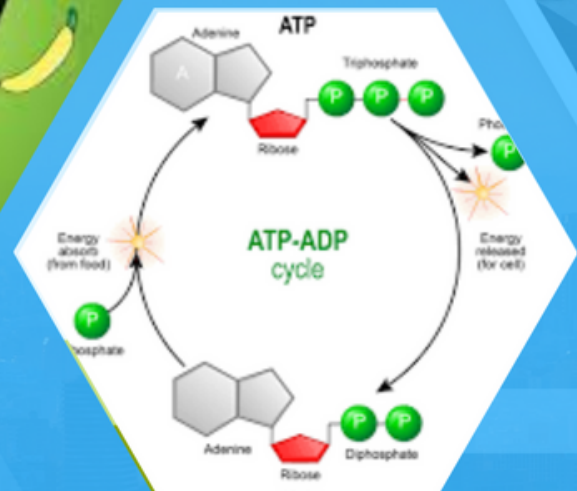




FSI Courses

Learning for Mastery Begins Here.



FSI BIOLOGY:

CHEMICAL ENERGY & ATP MADE EASY

A SIMPLIFIED EBOOK AND STUDY GUIDE WITH A PRETEST, ENGAGING VIDEO, INTERACTIVE ACTIVITIES, AND A POST TEST TO HELP YOU MASTER HOW CHEMICAL ENERGY IS USED FROM FOOD WE EAT TO CREATE ENERGY IN THE BODY THROUGH THE ATP/ADP CYCLE.

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CHEMICAL ENERGY & ATP PRETEST

Take the following pretest over chemical energy & ATP as a quick check for background knowledge and where you currently stand with your knowledge of how chemical energy from food is used to create cellular energy in the form of ATP

Click the link below:

Chemical Energy & ATP Pretest

CHEMICAL ENERGY & ATP VIDEO

Watch the video below to help you understand how chemical energy from the food we eat is converted into ATP energy to power cellular processes and functions in our body.

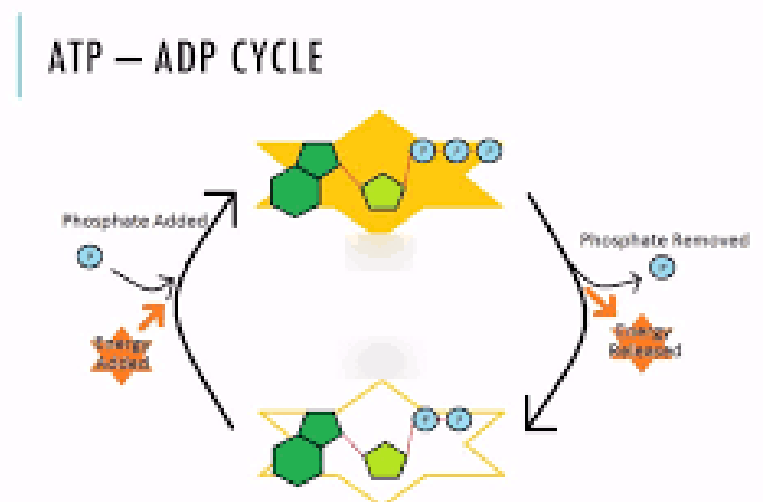
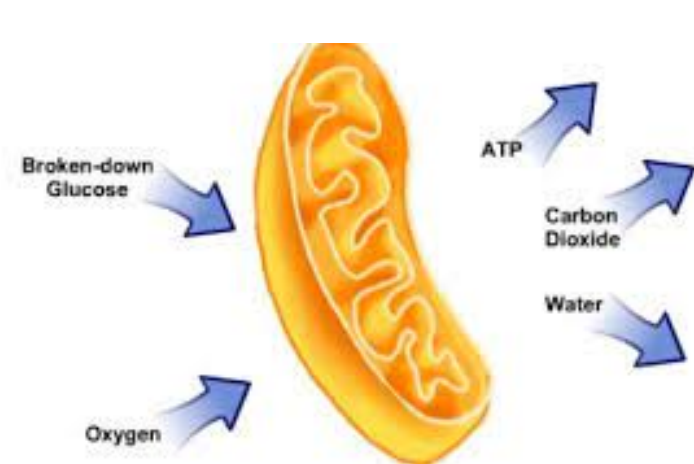
CHEMICAL ENERGY & ATP REVIEW

1. LIVING ORGANISMS GET THEIR ENERGY BY EATING PLANTS, TREES, AND/OR OTHER ORGANISMS.

2. WHEN ORGANISMS CHEW THEY ARE BREAKING DOWN THE CHEMICAL BONDS AND RELEASING ENERGY FROM THEIR FOOD.

3. OUR MITOCHONDRIA TAKE IN OXYGEN AND GLUCOSE TO PRODUCE ENERGY RICH ATP MOLECULES TO FUEL OUR CELLULAR PROCESSES

4. WHEN OUR CELLS NEED ENERGY, THE BOND BETWEEN THE 2ND AND 3RD PHOSPHATE GROUP OF ATP IS BROKEN BY HYDROLYSIS. ENERGY IS THEN RELEASED FROM THE BREAKING OF THIS BOND, AND NOW IT TURNS INTO ADP WITH ONLY 2 PHOSPHATE GROUPS NOW.



INTERACTIVE REVIEW ACTIVITY

Complete the following review activity to help strengthen your knowledge of how the ATP/ADP cycle works to provide energy to our cells to power cellular processes.

Click the link below:

[ATP-ADP Cycle Breakdown Interactive](#)

CHEMICAL ENERGY & ATP POST TEST

Take the following post test to test your knowledge on how much you have learned about Chemical energy & the ATP/ADP cycle. Good Luck!

Click the link below:

Chemical Energy & ATP Post test

ABOUT THE AUTHORS



Chivas & Jordan Spivey

We are a father and son duo that began our journey of helping young men and women in their educational pursuit of greatness over 10 years ago. Since then we have made numerous educational activities. Everything from fun interactive labs, a resource website for teachers and students, over 200 Youtube science videos, and even an educational science cartoon video series. Our goal is to streamline and simplify science concepts to help the young minds of today apply their scientific knowledge and know how to bring greatness to their bright and promising future!

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