

**Phosphorus: How is it stored and transported?**

Phosphorus is the second most abundant element in the body. It is found in bones, which contain 90% of the body's phosphorus. The rest is found in soft tissues, as well as in water and mineral salts. It is used for energy production. The body stores phosphorus in the form of a salt of sugar. Another product of phosphorylation is energy. When using this energy they use the carbon dioxide and oxygen that produced through the metabolic

process and water through their cells and transfer it to CO<sub>2</sub> through mitochondria for energy called ATP. This process uses water and phosphorylation reactions. However, the water from all these cells is removed.

Chemical reactions with the CO<sub>2</sub> molecules in the cells of the mitochondria in the water, ATP, oxygen, and fuel from the sugar and oxygen.

How is the storage reaction of phosphorylation?



(Involvement of water + 2 molecules of carbon dioxide)

ATP

(Involvement of sugar + 2 molecules of oxygen)

1. What is phosphorylation?  
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2. How do the three types of energy for phosphorylation work?  
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3. How does phosphorylation work? (ATP) \_\_\_\_\_ (ATP)  
ATP \_\_\_\_\_ (ATP) + \_\_\_\_\_

4. What do you think would happen if phosphorylation didn't?  
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