

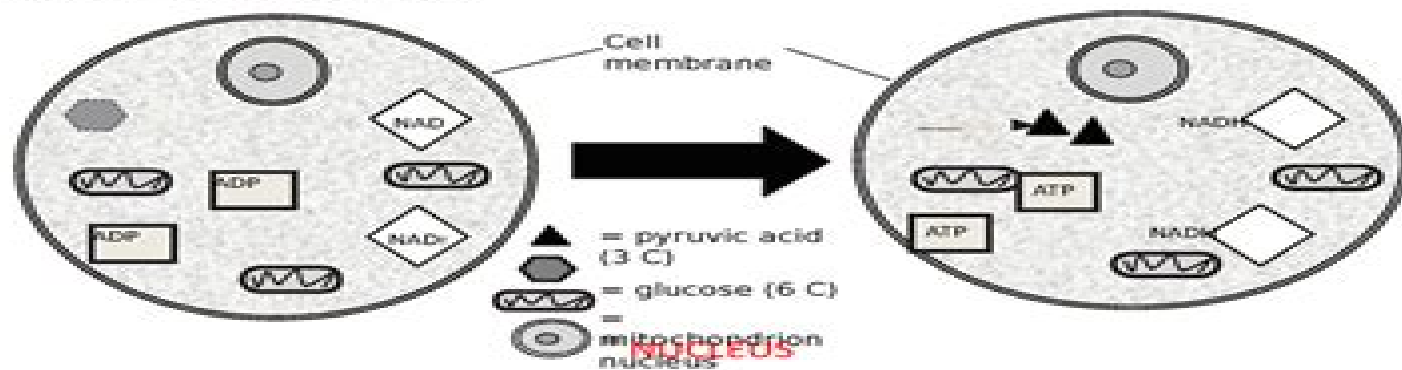
Cellular Respiration

How is energy transferred and transformed in living systems?

Why?

Living organisms display the property of **metabolism**, which is a general term to describe the processes carried out to acquire and use energy. We know that people need to eat, and in our foods are various kinds of nutrients that our cells use. One large group of nutrients in our foods is carbohydrates, which supply our cells with glucose ($C_6H_{12}O_6$). So the question is: How does the food we chew and swallow fuel our cells?

Model 1 - Glycolysis



1. Refer to Model 1.

- a. What is represented by the hexagon?

GLUCOSE

- b. How many carbon atoms (C) are in one molecule of glucose?

SIX

2. Refer to Model 1.

- a. What is represented by the triangles?

PYRUVIC ACID

- b. How many carbon atoms (C) are in one molecule of pyruvic acid?

THREE

3. In the process of glycolysis, what happens to glucose after it crosses the cell membrane into the cytoplasm of the cell?

GLUCOSE IS BROKEN DOWN INTO PYRUVIC ACID (2)

Cellular

Answers For Cellular Respiration Packet

Annelies Wilder-Smith



Answers For Cellular Respiration Packet:

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