

1. Define metabolism. Metabolism (from the Greek metabole, change) is the totality of an organism's chemical reactions and is an emergent property of life that arises from orderly interaction between molecules. As a whole, metabolism manages the material and energy resources of a cell through metabolic pathways.

2. There are two types of reactions in metabolic pathways: anabolic and catabolic. Anabolic (or biosynthetic) reactions consume energy, build up larger molecules, and include photosynthesis. Catabolic reactions release energy, break down molecules, require enzymes to catalyze reactions, and include cellular respiration. Energy released from the "downhill" reactions of catabolic pathways can be stored and then used to drive "uphill" anabolic reactions.

3. Contrast kinetic energy with potential energy. Kinetic energy is associated with the relative motion of objects; moving objects can perform work by imparting motion to other matter. Potential energy is possessed by matter because of its location or structure (such as water behind a dam), even though it is not presently moving.

4. Which type of energy does water behind a dam have? A mole of glucose? Water behind a dam has potential energy. A mole of glucose has chemical energy, the potential energy available for release in a chemical reaction.

5. What is free energy? What is its symbol? Free energy is the portion of a system's energy that can perform work when temperature and pressure are uniform throughout the system, as in a living cell. This helps define the free energy of a system regardless of its surroundings. Free energy is expressed by G.

6. For an exergonic reaction, is  $\Delta G$  negative or positive? Only processes with a negative  $\Delta G$  are spontaneous. Exergonic reactions, resulting in a net release of energy, have a negative  $\Delta G$  and are energetically favorable.

7. Is cellular respiration an endergonic or an exergonic reaction? What is  $\Delta G$  for this reaction?



Cellular respiration is an exergonic reaction;  $\Delta G$  for this reaction, which converts glucose and oxygen to carbon dioxide and water, is  $-686$  kcal/mol.

8. Is photosynthesis endergonic or exergonic? What is the energy source that drives it? Photosynthesis is an endergonic process driven by sunlight.

9. To summarize, if energy is released,  $\Delta G$  must be what? If energy is released, the change in free energy must be negative.

10. List three main kinds of work that a cell does. Give an example of each. Chemical work drives endergonic reactions that would not occur spontaneously, such as the synthesis of polymers from monomers. Transport work pumps substances across membranes against the direction of spontaneous movement. Mechanical work, involves physical processes such as the

# Metabolism Energy And Enzymes Study Guide Answers

**K Payea**



## **Metabolism Energy And Enzymes Study Guide Answers:**

The book delves into Metabolism Energy And Enzymes Study Guide Answers. Metabolism Energy And Enzymes Study Guide Answers is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Metabolism Energy And Enzymes Study Guide Answers, encompassing both the fundamentals and more intricate discussions.

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  6. In chapter 5, this book will draw a conclusion about Metabolism Energy And Enzymes Study Guide Answers. The final chapter will summarize the key points that have been discussed throughout the book.
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