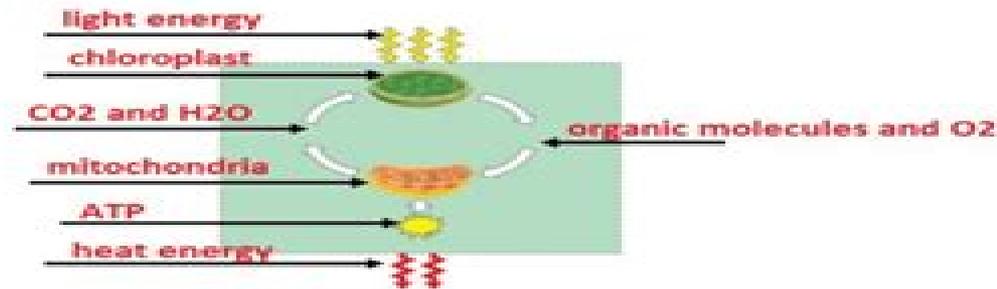


Chapter 7 Reading Guide – ANSWER KEY

Overview: Before getting involved with the details of cellular respiration and photosynthesis, take a look at the big picture. Photosynthesis and cellular respiration are key ecological concepts involved with energy flow. Label the following diagram.



1. In general terms, distinguish between fermentation and cellular respiration. Fermentation is the process by which cells produce ATP in the absence of oxygen and cellular respiration is the process by which cells produce ATP in the presence of oxygen.
2. Write the summary equation for cellular respiration. Write the specific chemical equation for the degradation of glucose. Summary equation for cellular respiration is organic compounds + oxygen → carbon dioxide + water + energy. $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{Energy (ATP + heat)}$
3. Define **oxidation** and **reduction**. Cellular respiration is an example of a redox reaction. Oxidation is the loss of electrons from one substance and reduction is the addition of electrons to another substance. During cellular respiration, glucose is "oxidized" because it loses electrons and oxygen is "reduced" because it gains electrons.
4. Explain in general terms how redox reactions are involved in energy exchanges. Redox reactions involve one substance losing electrons (oxidized) and another substance gaining electrons (reduced) in the same reaction. As electrons are transferred between substances, the electrons lose potential energy and energy is released. The exchange of electrons transfers energy from one set of chemicals to another.
5. Describe the role of NAD⁺ in cellular respiration. NAD⁺ is a coenzyme that acts as an "electron shuttle" or electron-carrier molecule. It is responsible for shuttling electrons from glucose and other intermediates to the electron transport chain.
6. In general terms, explain the role of the electron transport chain in cellular respiration. The electron transport chain involves a series of redox reactions in which electrons pass from carrier to carrier down to the final electron acceptor, oxygen. As the electrons are passed down the chain, the electrons lose potential energy. The energy released is used to phosphorylate ADP and form ATP.

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S Marginson



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