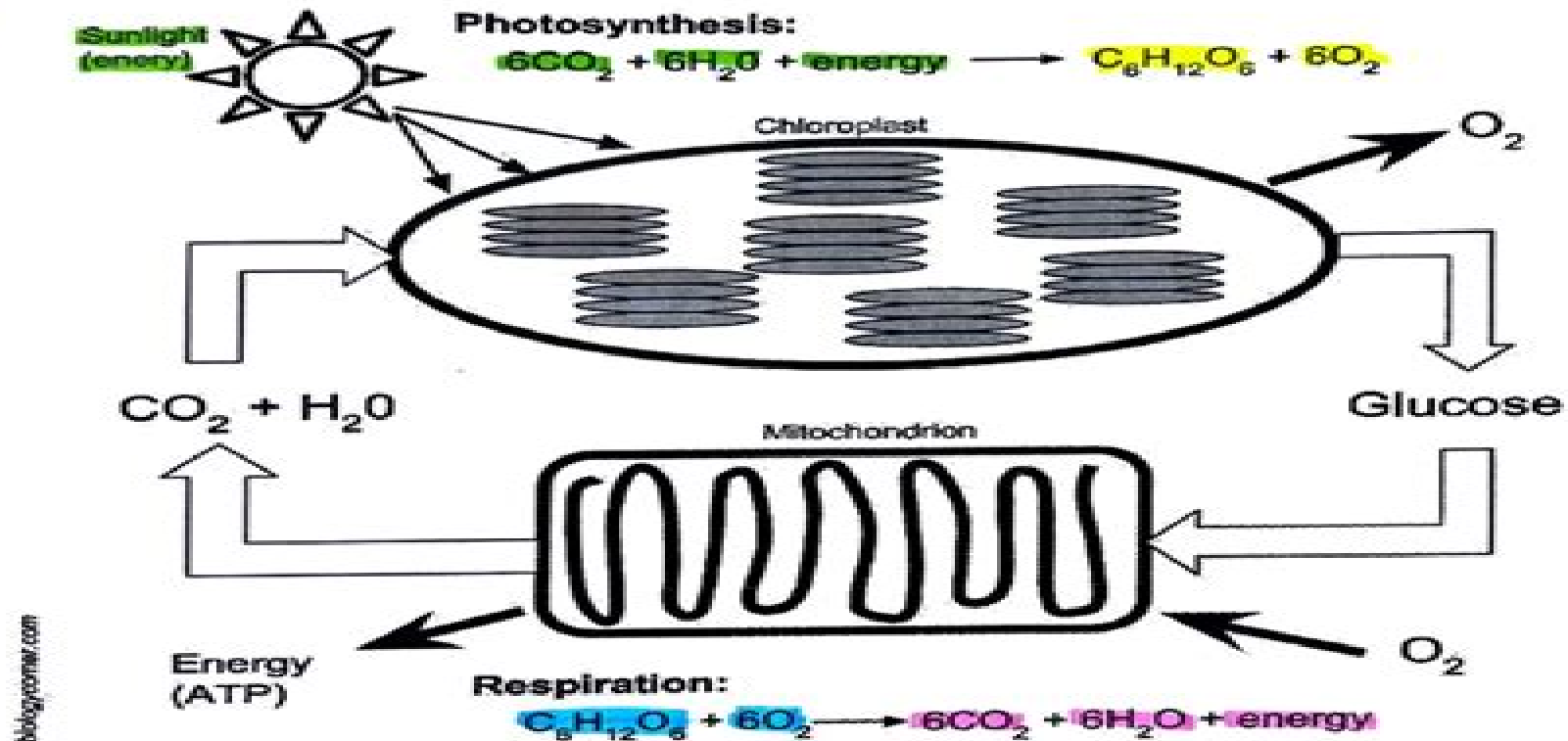


## Photosynthesis and Respiration Model

Essential Question: What is the relationship between photosynthesis and respiration?

Scientific modeling is an activity that aims to make the world easier to understand. There are many types of models, some are mathematical, and some are graphical models that help us visualize the subject. The graphic below is a model that attempts to show the interdependence of two cellular processes: respiration and photosynthesis.

Your goal is to examine the model, focus on the key details to answer the essential question.



### I. Examine Details

1. In what cell organelle does photosynthesis occur? cellular respiration?  
chloroplast mitochondria
2. What are the three things needed for photosynthesis? highlight these on the diagram in green.  
 $6\text{CO}_2$ ,  $6\text{H}_2\text{O}$ , and sunlight (energy)
3. What are the two products of photosynthesis? highlight yellow  
glucose ( $\text{C}_6\text{H}_{12}\text{O}_6$ ), and  $6\text{O}_2$
4. What are the two things needed for cellular respiration? highlight blue  
glucose + oxygen
5. What are the three products of cellular respiration? highlight purple  
 $\text{CO}_2$ ,  $\text{H}_2\text{O}$ , energy

# Modeling Photosynthesis Respiration Answer Key

**Carolina Biological Supply Company**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the Carolina Biological Supply Company text.

## **Modeling Photosynthesis Respiration Answer Key:**

**Bihar Board Solved Model Paper Biology Class 12 Latest Edition 2026** SBPD Editorial,2025-10-15 1 Sexual Reproduction in Flowering Plants 2 Human Reproduction 3 Reproductive Health Principles of Inheritance and Variations 5 Molecular Basis of Inheritance 6 Evolution 7 Human Health and Diseases 8 Strategies for Enhancement in Food Production 9 Microbes in Human Welfare 10 Biotechnology Principles and Processes 11 Biotechnology and its Applications 12 Organism and Populations 13 Ecosystem 14 Biodiversity and Conservation 15 Environmental Issues Latest Model Paper Set I IV with OMR Sheet Answers Board Examination Paper 2025 With OMR Sheet     Photosynthesis, Respiration, and Climate Change Katie M. Becklin,Joy K. Ward,Danielle A. Way,2021-05-31 Changes in atmospheric carbon dioxide concentrations and global climate conditions have altered photosynthesis and plant respiration across both geologic and contemporary time scales Understanding climate change effects on plant carbon dynamics is critical for predicting plant responses to future growing conditions Furthermore demand for biofuel fibre and food production is rapidly increasing with the ever expanding global human population and our ability to meet these demands is exacerbated by climate change This volume integrates physiological ecological and evolutionary perspectives on photosynthesis and respiration responses to climate change We explore this topic in the context of modeling plant responses to climate including physiological mechanisms that constrain carbon assimilation and the potential for plants to acclimate to rising carbon dioxide concentration warming temperatures and drought Additional chapters contrast climate change responses in natural and agricultural ecosystems where differences in climate sensitivity between different photosynthetic pathways can influence community and ecosystem processes Evolutionary studies over past and current time scales provide further insight into evolutionary changes in photosynthetic traits the emergence of novel plant strategies and the potential for rapid evolutionary responses to future climate conditions Finally we discuss novel approaches to engineering photosynthesis and photorespiration to improve plant productivity for the future The overall goals for this volume are to highlight recent advances in photosynthesis and respiration research and to identify key challenges to understanding and scaling plant physiological responses to climate change The integrated perspectives and broad scope of research make this volume an excellent resource for both students and researchers in many areas of plant science including plant physiology ecology evolution climate change and biotechnology For this volume 37 experts contributed chapters that span modeling empirical and applied research on photosynthesis and respiration responses to climate change Authors represent the following seven countries Australia 6 Canada 9 England 5 Germany 2 Spain 3 and the United States 12     **AI Technologies for Crop Breeding** Jen-Tsung Chen,2025-10-01 AI Technologies for Crop Breeding offers the latest insights into the use of artificial intelligence models to improve plant health and production Presenting applications of AI technologies in plant biology biotechnology and crop breeding it explores practices for the mitigation of biotic and abiotic stressors as well as other plant growth challenges AI based technologies are expected to

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*What Sustains Life?* Dan W. Urry, 2007-10-18 In the sixth century BC Thales of Miletus father of the Ionian Enlightenment setting aside the mythic views of Homer and Hesiod asked What is the world made of and thereby became the first physicist He answered that water is the basis of all matter and thereupon became an often cited example of early Greek reasoning gone astray However not only did Thales initiate scientific inquiry but also with reference to living things he was substantially correct Living organisms are composed mostly of water but the unique role of water in living organisms has been wanting for adequate description From the perspective of D H Lawrence Water is H<sub>2</sub>O hydrogen two parts oxygen one part but there is a third thing that makes it water and nobody knows what that is From our perspective and as advanced in this volume the interaction of water with dissimilar groups comprising each protein molecule the competition for water between these disparate substituents along chain molecules of living organisms and the freedom of motion that water gives protein chains combine to provide the physical basis of Life

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