

4 2 study guide overview of photosynthesis worksheet key

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4.2 Study Guide: Overview of Photosynthesis

Worksheet Key

Questions and Answers

1. What is photosynthesis?

- Photosynthesis is the process by which plants and other organisms use sunlight, carbon dioxide, and water to create glucose (food) and release oxygen.

2. Where does photosynthesis take place?

- Photosynthesis occurs in the chloroplasts of plant cells.

3. What are the reactants and products of photosynthesis?

- Reactants: sunlight, carbon dioxide, water
- Products: glucose, oxygen

4. What are the two stages of photosynthesis?

- Light-dependent reactions
- Calvin cycle (light-independent reactions)

5. What happens during the light-dependent reactions?

- Light energy is used to split water molecules.
- Oxygen is released as a byproduct.
- ATP (energy currency) and NADPH (electron carrier) are produced.

6. What happens during the Calvin cycle?

- Carbon dioxide is combined with ATP and NADPH to produce glucose.

7. Why is photosynthesis important?

- Photosynthesis provides food and oxygen for all living organisms.
- It removes carbon dioxide from the atmosphere, helping to regulate climate change.

8. What factors affect the rate of photosynthesis?

- Sunlight intensity
- Temperature
- Carbon dioxide concentration
- Water availability

9. How can we use knowledge of photosynthesis to improve agricultural practices?

- Optimize light exposure
- Regulate temperature
- Control water supply
- Fertilize crops with carbon dioxide

10. What are some applications of photosynthesis in biotechnology?

- Production of biofuels
- Creation of genetically modified crops
- Development of new medicines

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