



# Practice Worksheet on Photosynthesis and Plant Processes

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Subject: Biology

Date: 1/14/2025

## Long Answer Questions

1. Explain the process by which plants obtain water and minerals from the soil.
2. Describe the process of photosynthesis in plants, including the reactants and products involved.
3. Explain how sunlight plays a crucial role in the food production process of plants.
4. Describe the role of leaves in gas exchange within a plant's life cycle. Include specific gases.
5. Describe the process of transpiration in plants and its significance.

## Multiple Choice Questions

1. Which part of the plant primarily absorbs carbon dioxide from the atmosphere?

- a) Roots
- b) Leaves
- c) Stems
- d) Flowers

2. What is the primary food produced by plants during photosynthesis?

- a) Oxygen
- b) Glucose
- c) Carbon Dioxide
- d) Water

3. In which part of the plant cell does photosynthesis primarily take place?

- a) Soil
- b) Chloroplasts
- c) Roots
- d) Stems

4. What is the primary source of energy for photosynthesis?

- a) Water
- b) Oxygen
- c) Sunlight
- d) Minerals

5. What process is responsible for water movement and evaporation from aerial parts of plants?

- a) Transpiration
- b) Respiration
- c) Photosynthesis
- d) Germination

# Answer Key

## Long Answer Questions – Expected Responses

1. Explain the process by which plants obtain water and minerals from the soil.

Expected Answer: Plants absorb water and minerals through their roots, which are essential for growth and various physiological processes.

2. Describe the process of photosynthesis in plants, including the reactants and products involved.

Expected Answer: Photosynthesis is the process where plants use sunlight, water, and carbon dioxide to create their food (glucose) and release oxygen as a byproduct.

3. Explain how sunlight plays a crucial role in the food production process of plants.

Expected Answer: Sunlight provides energy to the chloroplasts within plant cells, enabling them to produce glucose through photosynthesis. This glucose serves as the plant's food source.

4. Describe the role of leaves in gas exchange within a plant's life cycle. Include specific gases.

Expected Answer: Leaves take in carbon dioxide from the atmosphere and, through photosynthesis, release oxygen into the atmosphere.

5. Describe the process of transpiration in plants and its significance.

Expected Answer: Transpiration is the process of water movement through a plant and its evaporation from aerial parts, such as leaves, stems and flowers. It helps regulate temperature and nutrient transport.

## Multiple Choice Questions – Correct Answers

1. Which part of the plant primarily absorbs carbon dioxide from the atmosphere?

Correct Answer: Leaves

2. What is the primary food produced by plants during photosynthesis?

Correct Answer: Glucose

3. In which part of the plant cell does photosynthesis primarily take place?

Correct Answer: Chloroplasts

4. What is the primary source of energy for photosynthesis?

Correct Answer: Sunlight

5. What process is responsible for water movement and evaporation from aerial parts of plants?

Correct Answer: Transpiration