



*Unleashing Innovation Through STEM Education*

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Lesson: Roots and Leaves

Name:

Teacher:

Date:

## Roots and Leaves Worksheet

Choose the best answer for each question:

1. What is the main function of roots?
  - A) Make food for the plant
  - B) Absorb water and nutrients
  - C) Release oxygen
  - D) Perform photosynthesis
2. Which part of the plant performs photosynthesis?
  - A) Roots
  - B) Stem
  - C) Leaves
  - D) Flowers
3. What process occurs when water evaporates from leaves?
  - A) Absorption
  - B) Transpiration
  - C) Respiration
  - D) Germination
4. Why do plants need roots?
  - A) To produce seeds
  - B) To anchor the plant and absorb water
  - C) To release carbon dioxide
  - D) To attract pollinators
5. What do leaves release during transpiration?
  - A) Oxygen
  - B) Water vapor
  - C) Carbon dioxide
  - D) Nutrients
6. Which of the following is NOT a function of roots?
  - A) Anchoring the plant
  - B) Absorbing water
  - C) Making food
  - D) Storing nutrients
7. What pigment in leaves helps capture sunlight?
  - A) Chlorophyll



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- B) Hemoglobin
  - C) Carotene
  - D) Xylem
8. What would happen if a plant had no roots?
- A) It would still grow normally
  - B) It could not absorb water and nutrients
  - C) It would make more leaves
  - D) It would produce more seeds
9. What is the main role of leaves in plants?
- A) Absorb water
  - B) Anchor the plant
  - C) Make food through photosynthesis
  - D) Store food
10. Which two parts of the plant work together to move water and make food?
- A) Roots and flowers
  - B) Roots and leaves
  - C) Stem and seeds
  - D) Leaves and petals



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### Answer Key

1. B) Absorb water and nutrients
2. C) Leaves
3. B) Transpiration
4. B) To anchor the plant and absorb water
5. B) Water vapor
6. C) Making food
7. A) Chlorophyll
8. B) It could not absorb water and nutrients
9. C) Make food through photosynthesis
10. B) Roots and leaves