

**Grade 4 Science Worksheet: adaptation in plants\_3**  
**(DifficultyLevel:Advance)**

**Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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**Part 1: Fill in the Blanks**

1. Aquatic plants have \_\_\_\_\_ leaves that allow them to float and absorb sunlight efficiently.
  2. Rainforest plants grow taller to overcome the dense \_\_\_\_\_ in their habitat.
  3. The spines on cacti are modified \_\_\_\_\_ that reduce water loss and protect the plant.
  4. Pine trees are adapted to snowy environments with their \_\_\_\_\_ leaves and cone-like shapes.
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**Part 2: Short Answer Questions**

1. How does the waxy coating on pine tree leaves benefit the plant?  
\_\_\_\_\_
  2. What allows rainforest plants to survive despite heavy rainfall and dense canopy cover?  
\_\_\_\_\_
  3. Why are lotus plants' leaves waterproof, and how does this help them?  
\_\_\_\_\_
  4. How do the spines of cacti serve a dual purpose in their survival?  
\_\_\_\_\_
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### Part 3: Multiple Choice Questions (MCQs)

- 1. What is the key feature of pine trees that helps them shed snow easily?**
  - A) Their waxy leaves
  - B) Their cone-like shape
  - C) Their shallow roots
  - D) Their tall, wide trunk
- 2. What helps rainforest plants deal with the challenge of low sunlight on the forest floor?**
  - A) Drip tips on leaves
  - B) Growing taller to reach sunlight
  - C) Waterproof leaves
  - D) Developing spines to protect themselves
- 3. Why don't aquatic plants have thick, woody stems like land plants?**
  - A) Because they grow in shaded areas
  - B) Because they float and need lightweight structures
  - C) Because they store water in their stems
  - D) Because they absorb nutrients from rain
- 4. How do desert plants survive long periods of drought?**
  - A) By having large, shallow leaves to collect dew
  - B) By storing water in thick stems and reducing water loss through small leaves or spines
  - C) By growing roots deep underground
  - D) By shedding their leaves during dry seasons

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#### **Bonus Question:**

Why would a pine tree struggle to survive in a desert or a rainforest? Explain in terms of adaptations.

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**-BE THE CHAMPION-**