

Name \_\_\_\_\_

## The Green Mystery: Why Are Leaves Green?

### Multiple Choice Questions

1. Why do leaves appear green to our eyes?
  - a) Because they absorb green light
  - b) Because they reflect and transmit green light
  - c) Because they have green pigments
  - d) Because of the presence of carotenoids
  
2. What is the primary role of chlorophyll in leaves?
  - a) To absorb green light
  - b) To capture and convert sunlight into chemical energy
  - c) To provide structural support to leaves
  - d) To protect leaves from herbivores
  
3. Which wavelengths of light are most efficiently absorbed by chlorophyll during photosynthesis?
  - a) Green and blue light
  - b) Green and red light
  - c) Blue and red light
  - d) Yellow and orange light
  
4. Why do some trees and plants change leaf colors in the fall?
  - a) To attract pollinators
  - b) To camouflage from predators
  - c) Because chlorophyll breaks down, revealing other pigments
  - d) To prepare for winter hibernation
  
5. What advantage does the green color of leaves offer to plants?
  - a) It makes them less efficient in photosynthesis
  - b) It helps them blend in with their surroundings
  - c) It increases water loss through excessive evaporation
  - d) It raises their internal temperature

