

Name _____

The Backbone of Plant Growth: How Stems Support Plants

Multiple Choice Questions

1. What is one primary function of stems in plant growth?
 - A) Storing water
 - B) Anchoring the plant in the soil
 - C) Lifting leaves towards sunlight
 - D) Attracting pollinators

2. How do stems facilitate the movement of water and nutrients?
 - A) Through specialized tissues called bark
 - B) By absorbing nutrients from the soil
 - C) Through the stem's epidermis layer
 - D) Via specialized tissues called xylem and phloem

3. What role do stems play in supporting flowers and fruits?
 - A) Preventing water loss
 - B) Providing structural support
 - C) Producing seeds
 - D) Protecting against predators

4. Where are apical meristems located, and what is their function?
 - A) In the stem's cambium layer, promoting secondary growth
 - B) At the stem's base, anchoring the plant in the soil
 - C) At the stem's tips, producing new cells for elongation
 - D) In the stem's epidermis, protecting against pathogens

5. What is the purpose of lateral meristems in stem growth?
 - A) Facilitating secondary tissue growth
 - B) Increasing stem flexibility
 - C) Stimulating flower production
 - D) Promoting leaf development

