

# Botany Basics for Young Explorers

Botany · Practice Test · 12 Questions

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**1. Which green pigment do plants use to absorb sunlight for photosynthesis?**

- A) Chlorophyll
- B) Carotene
- C) Anthocyanin
- D) Xanthophyll

**2. What is the primary function of a plant's root system?**

- A) Producing seeds
- B) Photosynthesis
- C) Absorbing water and nutrients
- D) Attracting pollinators

**3. Which part of a plant is responsible for producing seeds?**

- A) Stem
- B) Flower
- C) Leaf
- D) Root

**4. What process do plants use to release water vapour into the atmosphere through their leaves?**

- A) Respiration
- B) Transpiration
- C) Germination
- D) Pollination

**5. Which of these plants is classified as a gymnosperm, meaning it produces 'naked' seeds?**

- A) Rose
- B) Pine tree
- C) Apple tree
- D) Lily

**6. What is the hard, protective outer covering of a seed called?**

- A) Endosperm
- B) Embryo
- C) Seed coat
- D) Cotyledon

**7. Which gas do plants primarily take in from the air to perform photosynthesis?**

- A) Oxygen
- B) Nitrogen
- C) Carbon dioxide
- D) Hydrogen

**8. What are the tiny openings on the underside of a leaf that allow for gas exchange called?**

- A) Stomata
- B) Xylem
- C) Phloem
- D) Cuticle

**9. Which substance provides the structural strength in plant cell walls?**

- A) Starch
- B) Cellulose
- C) Glucose
- D) Protein

**10. What is the scientific term for the growth of a plant toward a light source?**

- A) Gravitropism
- B) Phototropism
- C) Hydrotropism
- D) Thigmotropism

**11. Which vascular tissue in plants is responsible for transporting water from the roots to the leaves?**

- A) Phloem
- B) Xylem
- C) Cambium
- D) Pith

**12. What is the main role of the phloem in a plant?**

- A) Transporting sugars
- B) Storing water
- C) Providing support
- D) Anchoring the plant