

Botany Basics for Young Explorers

Botany · Answer Key · 12 Questions

1. Which part of a plant is primarily responsible for absorbing water and minerals from the soil?

A) Leaves

B) Roots

C) Flowers

D) Stem

2. What is the name of the green pigment that plants use to capture sunlight for photosynthesis?

A) Chlorophyll

B) Carotene

C) Melanin

D) Hemoglobin

3. Which gas do plants primarily take in from the atmosphere to perform photosynthesis?

A) Oxygen

B) Nitrogen

C) Carbon dioxide

D) Hydrogen

4. What is the process by which plants make their own food using sunlight?

A) Respiration

B) Germination

C) Pollination

D) Photosynthesis

5. Which part of the plant is responsible for producing seeds?

A) Stem

B) Root

C) Flower

D) Bark

6. What do we call the early stage of a plant's life when it begins to grow from a seed?

A) Germination

B) Photosynthesis

C) Pollination

D) Dormancy

7. Which part of the plant carries water and nutrients from the roots to the leaves?

- A) Flower
- B) Fruit
- C) Stem**
- D) Seed

8. What are the tiny openings on the underside of a leaf called, which allow the plant to breathe?

- A) Pores
- B) Stomata**
- C) Veins
- D) Petals

9. Which of these is considered a 'non-vascular' plant because it lacks true roots, stems, and leaves?

- A) Moss**
- B) Fern
- C) Oak tree
- D) Sunflower

10. What is the main function of a fruit in the life cycle of a flowering plant?

- A) To attract bees
- B) To provide shade
- C) To protect and disperse seeds**
- D) To perform photosynthesis

11. Which type of plant grows back year after year from the same root system?

- A) Annual
- B) Perennial**
- C) Biennial
- D) Deciduous

12. What is the primary purpose of a plant's flower?

- A) To store water
- B) To provide oxygen
- C) To attract pollinators**
- D) To absorb minerals