

# Learn Plant Parts and Their Roles

**How to use:** Print first for the main practice. Then use the device to repeat activities and save progress.

## LEARNING OBJECTIVES

- 1 Name the five main parts of a plant — root, stem, leaf, flower, and seed
- 2 Describe the role each plant part plays
- 3 Explain what photosynthesis means in simple words

## MINI LESSON

Plants can't walk, talk, or eat at a table — but every single part of a plant has an important job that keeps it alive and growing!

### Roots — the anchor and drinker

- Roots grow underground and hold the plant firmly in the soil.
- They soak up water and nutrients from the soil and send them up the plant.
- Example: Carrots and beets are roots we can eat.

### Stem — the highway

- The stem supports the plant and holds it upright.
- It carries water and nutrients from the roots to the leaves and flowers — like a straw.

### Leaves — the food factory

- Leaves capture sunlight and use it — along with water and air — to make food for the plant.
- This process is called photosynthesis.

### Flower and Seed

- The flower attracts insects that help the plant reproduce.
- The seed is made inside the flower; it can grow into a brand-new plant.

## VOCABULARY

**Root** The underground part of a plant that absorbs water and nutrients  
*e.g. A carrot is a root.*

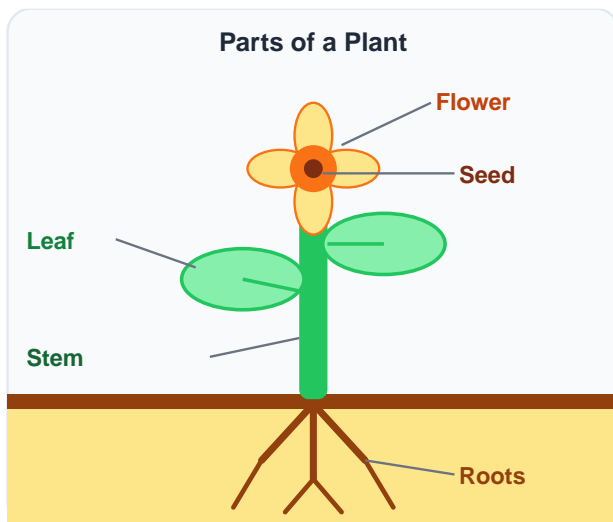
**Stem** The part of a plant that supports it and carries water up  
*e.g. The green stem of a sunflower holds the head high.*

**Leaf** The part of a plant that makes food using sunlight  
*e.g. The wide leaves of a maple tree soak up light.*

**Flower** The colorful part that attracts insects and makes seeds  
*e.g. A rose is a flower.*

**Seed** A small part made by a flower that can grow into a new plant  
*e.g. An apple seed can grow into an apple tree.*

**Photosynthesis** The process leaves use to make food from sunlight, water, and air  
*e.g. Leaves stay green because of photosynthesis.*



## What does each part do?

**Roots** Absorb water and nutrients

**Stem** Support and carry water up

**Leaf** Make food using sunlight

**Flower** Attract insects; reproduce

**Seed** Grow into a new plant

! Ask yourself: Which part drinks water? Which part makes food? Which part makes new plants?

## TRACING PRACTICE

Trace each word, then copy it twice on the lines below.

TRACE

root

COPY 1

COPY 2

TRACE

stem

COPY 1

COPY 2

TRACE

leaf

COPY 1

COPY 2

TRACE

flower

COPY 1

COPY 2

TRACE

seed

COPY 1

COPY 2

TRACE

petal

COPY 1

COPY 2

TRACE

nutrients

COPY 1

COPY 2

TRACE

photosynthesis

COPY 1

COPY 2

Tip: As you trace each word, say its job out loud — for example, "stem — carries water up."

### EXERCISES — MATCH THE PAIRS

Draw a line from each plant part to the job it does.

1. Root

2. Stem

3. Leaf

4. Flower

5. Seed

A. Holds the plant upright and carries water up

B. Can grow into a brand-new plant

C. Makes food using sunlight

D. Absorbs water and nutrients from the soil

E. Attracts insects that help the plant reproduce

Write the matching letter next to each number (e.g. 1-B, 2-A, 3-C...).

1 — \_\_\_\_ 2 — \_\_\_\_ 3 — \_\_\_\_ 4 — \_\_\_\_ 5 — \_\_\_\_

### EXERCISES — MULTIPLE CHOICE

1. What is the main job of a plant's roots?

- To make food using sunlight
- To absorb water and nutrients from the soil
- To attract insects for reproduction

2. Why does a plant need a stem?

- To soak up sunlight from the ground
- To produce seeds for new plants
- To hold the plant upright and carry water to its parts

3. Which plant part is the food factory?

- Leaf
- Root
- Seed

4. What does a flower do for the plant?

- It absorbs water from the rain.
- It attracts insects that help the plant reproduce.
- It grows deep underground to find nutrients.

**5. What can a seed become?**

- A new flower immediately
- Extra nutrients for the soil
- A brand-new plant

**6. What is photosynthesis?**

- The process leaves use to make food from sunlight, water, and air
- The way roots drink water from the soil
- How seeds travel to a new place

**7. Where do a plant's roots grow?**

- Up toward the sunlight
- Down into the soil
- Out along the surface of the water

**8. A carrot is an example of which plant part?**

- Stem
- Leaf
- Root

**9. How does water travel from the roots to the leaves?**

- Through the stem
- Through the petals
- Through the seed

**10. Why does a plant need ALL of its parts?**

- Because plants like to look colorful
- Because each part does a different job that helps the plant survive and reproduce
- Because plants grow faster when they have more parts

## ASSESSMENT

**PARENT / TEACHER CHECKLIST**

- Points to and names all five plant parts — root, stem, leaf, flower, and seed — on a diagram or real plant.
- Explains aloud that roots absorb water and nutrients from the soil.
- States that leaves make food for the plant using sunlight (photosynthesis).
- Correctly states that a seed can grow into a new plant.