

# Plant Life Cycles

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

## LEARNING OBJECTIVES

- 1 Describe the stages of a plant life cycle in order
- 2 Identify the role of seeds, roots, and flowers in plant growth

## MINI LESSON

Plants go through a series of changes from a tiny seed to a mature plant that produces new seeds. This repeating pattern is called a life cycle. Every plant follows similar stages, though the speed and appearance of each stage can differ.

### Stages of a Plant Life Cycle

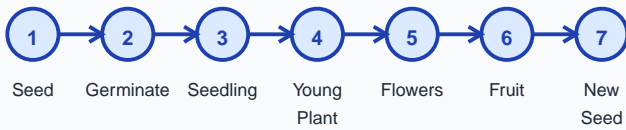
1. Seed — the starting point, containing everything needed to grow.
2. Germination — the seed absorbs water, splits open, and a root grows down.
3. Seedling — a young shoot pushes through the soil and tiny leaves appear.
4. Young plant — leaves grow larger, collecting sunlight for food (photosynthesis).
5. Mature plant — the plant reaches full size and flowers bloom.
6. Pollination and fruit — flowers are pollinated and fruit forms around seeds.
7. New seeds — the fruit releases seeds that will start new plants.

### Key Parts and Their Roles

- Roots — anchor the plant and absorb water and minerals from the soil.
- Stem — carries water and nutrients up to the leaves.
- Leaves — make food using sunlight, water, and carbon dioxide (photosynthesis).
- Flowers — attract pollinators so seeds can form.
- Seeds — contain the new plant embryo; start the cycle again.

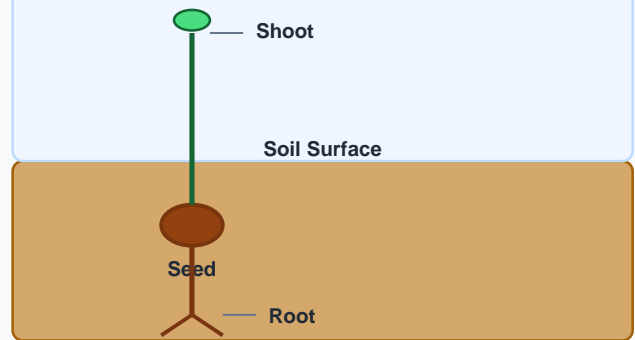
! Remember: seeds need water, warmth, and air to germinate — they do not need sunlight until the shoot appears.

## Plant Life Cycle



The life cycle repeats as new seeds grow into new plants.

## Seed to Seedling



### EXERCISES — PUT IN ORDER

Number the stages of the plant life cycle in the correct order (1 = first).

- Seed in the soil
- Seed germinates and root grows
- Seedling pushes through soil
- Young plant grows leaves
- Plant matures and flowers bloom
- Flowers are pollinated and fruit forms
- Fruit contains new seeds

Number the circles in the correct order.

### EXERCISES — MULTIPLE CHOICE

Circle the best answer.

**What is the first stage of a plant life cycle?**

- Seed
- Flower
- Fruit

**What process allows a seed to begin growing?**

- Photosynthesis
- Germination
- Pollination

**Which part of the plant makes food using sunlight?**

- Root
- Stem
- Leaf

**What is the role of the root?**

- Absorbs water and anchors the plant
- Carries out photosynthesis
- Attracts pollinators

**What happens after a flower is pollinated?**

- The root grows longer
- Fruit and seeds form
- Leaves fall off

**What do seeds need to germinate?**

- Sunlight, soil, and a flower
- Water, warmth, and air
- Fruit, water, and cold

**Which stage comes after the seedling stage?**

- Young plant grows leaves
- Germination
- Pollination

**What is photosynthesis?**

- The process of seeds sprouting
- The process of making food using sunlight
- The process of absorbing water through roots

**Why do plants produce flowers?**

- To carry out photosynthesis
- To grow taller
- To attract pollinators so seeds can form

**How does a plant life cycle continue after fruit forms?**

- New seeds are released and can grow into new plants
- The old plant stops growing permanently
- The roots grow into a new plant

**ASSESSMENT**

**PARENT / TEACHER CHECKLIST**

- Names and orders all seven stages of a plant life cycle correctly.
- Explains the role of roots, leaves, and flowers in plant growth.
- Describes what a plant needs to germinate and grow.
- Connects the concept of fruit to the dispersal of new seeds.