

# Plants: Growth, Resources & Leaf Function

Explain that plants need suitable resources for growth and introduce leaves as important sites for making food using light.

## LEARN • PRACTISE • CREATE • REFLECT

Original BrightPencil Kids resource - adult-led where appropriate

A4 edition • 12 purposeful pages • review copy

**Print. Learn. Grow.**

# Grown-up guide

---

## Learning objective

Explain that plants need suitable resources for growth and introduce leaves as important sites for making food using light.

## Use this pack well

- Model the first example aloud, then let the learner try.
- Ask “How do you know?” more often than “Are you finished?”.
- Use real objects, talk, movement or observation when the activity suggests it.
- Stop or shorten the session if attention or enjoyment drops.
- Open-ended pages can have many successful answers.

## Quality note

This resource was written originally for BrightPencil Kids. Curriculum sources informed scope and progression only; no third-party worksheet or story text is reproduced.

# Learn the idea

---

**1** Roots absorb water and minerals; stems support and transport; leaves capture light and exchange gases.

**2** Plants need suitable light, water, air and nutrients, but requirements vary.

**3** Growth can be observed and measured over time.

## Talk about it

Explain one idea in your own words. Give an example from real life, a drawing or an object if that helps.

Label root, stem, leaf and flower functions.

Predict how two seedlings might differ under different light conditions.

Design a fair observation plan without depriving plants dangerously.

Read a growth table and describe a trend.

Explain why “plants eat soil” is misleading.

## Try it beyond the page

---

### Real-world / hands-on connection

Grow a safe classroom plant and record height/leaf changes over several days with adult supervision.

### Before you finish

What did you notice?

---

What evidence, object or example helped you?

---

What would you change if you tried again?

---

# Create something

---

## Your project

Create a plant-resource diagram showing inputs and the jobs of major parts.

Use this space for planning, drawing, mapping, designing or notes.

CHALLENGE

# Think deeper

---

1. Do roots “eat” soil?

---

---

2. Why are leaves important?

---

---

3. Why measure growth repeatedly?

---

---

# Quick review

---

1. In one sentence, explain the big idea of “Plants: Growth, Resources & Leaf Function”.

---

---

2. Draw or write one example that shows you understand.

---

---

3. Choose one activity from this pack and explain the strategy you used.

---

---

4. Write one question you still have.

---

---

# Answer & discussion notes

---

Use these as guidance, not scripts. Open questions can have different successful responses when the reasoning is sensible and evidence-based.

## 1. Suggested response

No; roots absorb water/minerals.

## 2. Suggested response

They are important for capturing light and making food.

## 3. Suggested response

To observe change and patterns over time.

## Review before publication

Check age fit, factual accuracy, clarity, accessibility, rights provenance and whether the activity works in practice. This file remains a review copy until those checks are signed off.

FINISH

# My learning reflection

---

**I finished this BrightPencil learning pack.**

**One thing I understand better now:**

---

---

**A strategy that helped me:**

---

---

**Something I created or noticed:**

---

---

**My next small question or goal:**

---

---

**Print. Learn. Grow.**