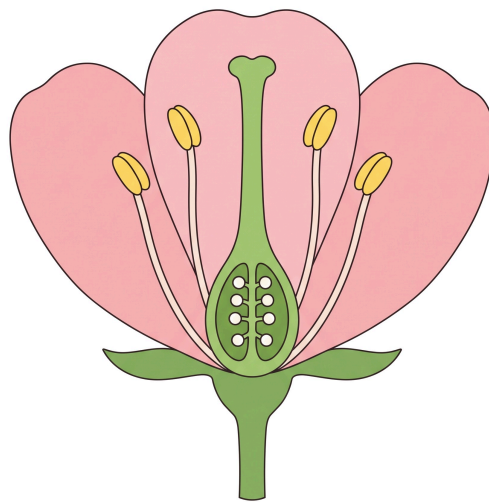
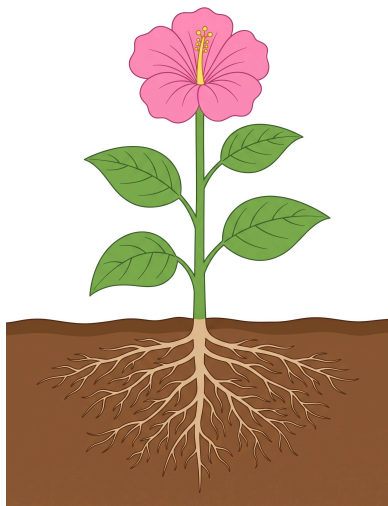


# Parts of a Plant and Flower

Roots, stems, leaves and flowers, and how they work



**10**

printable sheets

**22**

pages

**All**

answer keys included

# Parts of a Plant and Flower Teaching Pack

Roots, stems, leaves and flowers, and how they work

**How to use this pack.** The sheets are in a suggested teaching order: show the labeled diagrams, have students label the blank ones, then work through the practice sheets and finish with the quiz. Use them all over a week or pick the ones you need. The answer keys are together at the back.

## What is inside

### 1. Teach

|                           |   |
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| Parts of a Plant Diagram  | 3 |
| Parts of a Flower Diagram | 4 |

### 2. Label

|                         |   |
|-------------------------|---|
| Blank Parts of a Plant  | 5 |
| Blank Parts of a Flower | 6 |

### 3. Match

|                                  |   |
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| Parts of a Plant and Their Jobs  | 7 |
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### 4. Read

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| How a Plant Works | 9 |
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### 5. Connect

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| Which Part of the Plant Do We Eat? | 11 |
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### 6. Review

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| Parts of a Plant and Flower Crossword | 12 |
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### 7. Check

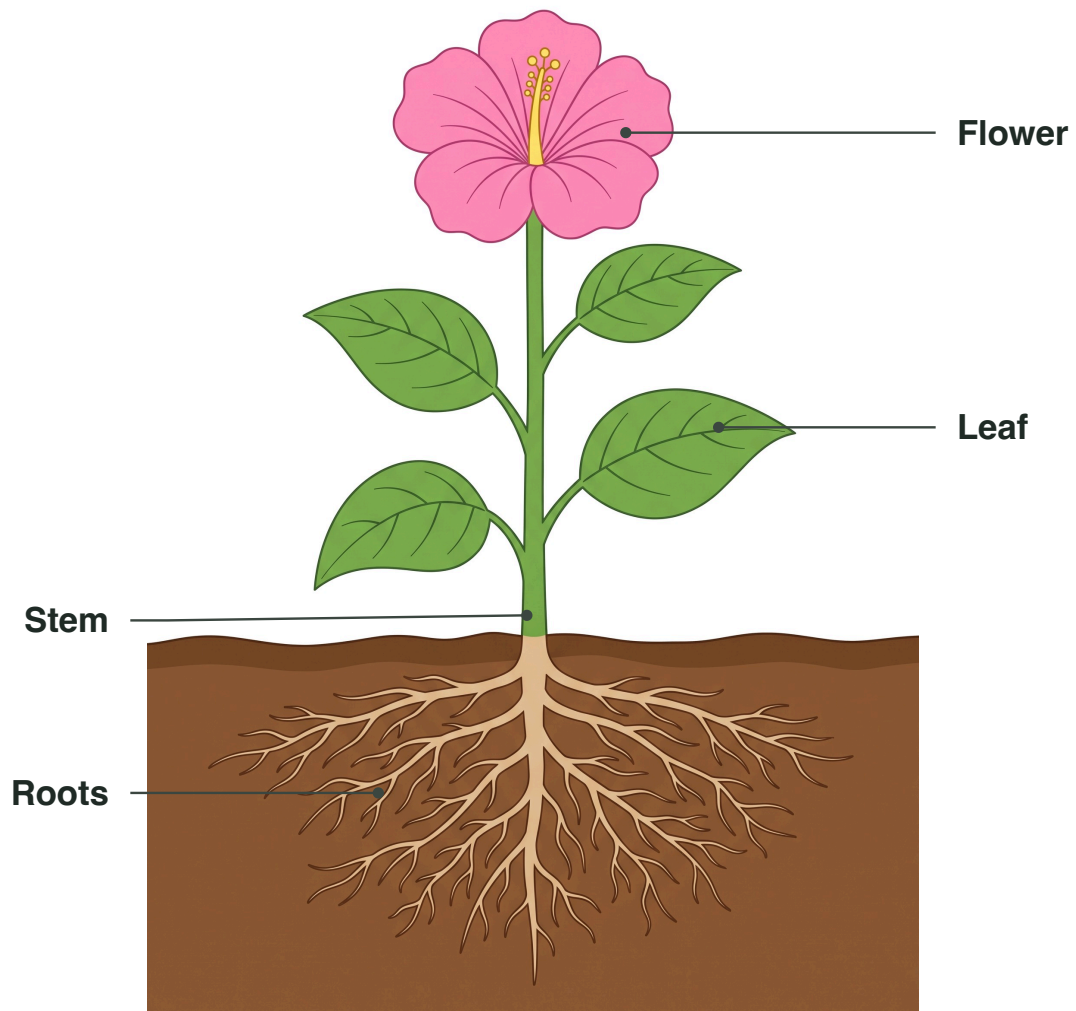
|                                  |    |
|----------------------------------|----|
| Parts of a Plant and Flower Quiz | 14 |
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### Answer keys

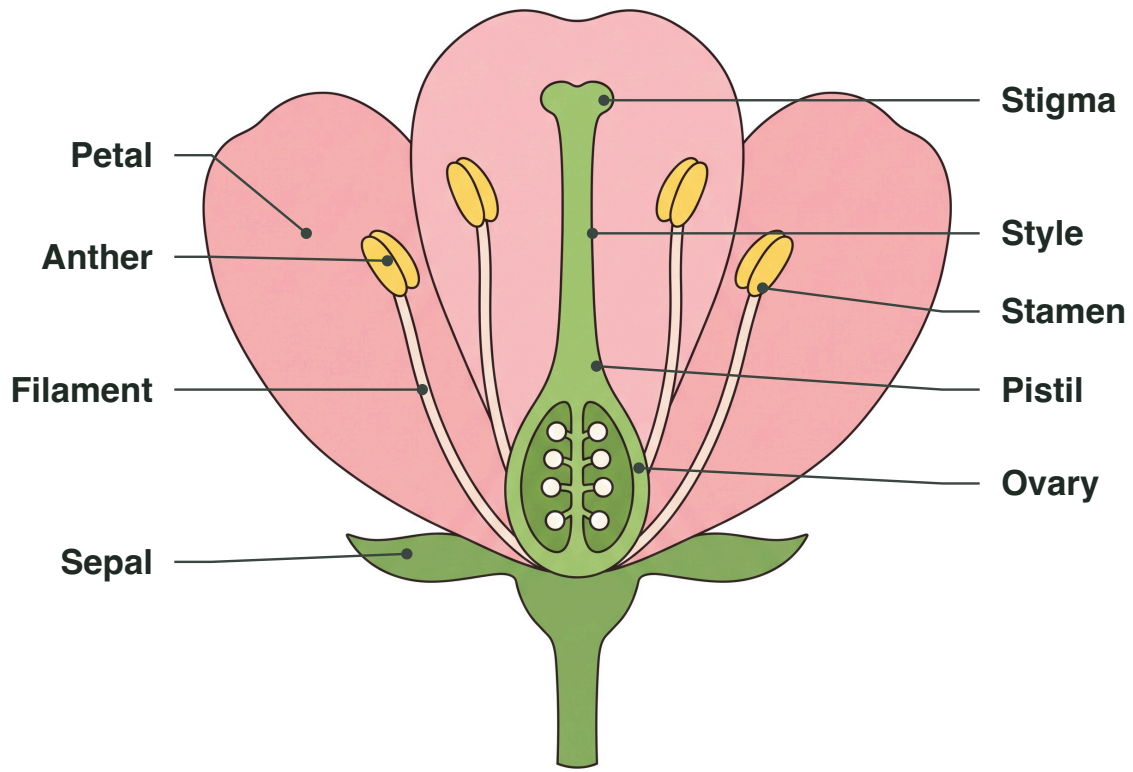
|                                     |    |
|-------------------------------------|----|
| Every answer key, in the same order | 16 |
|-------------------------------------|----|

**More free teaching packs.** Photosynthesis, Life Cycle of a Plant and more at [printablescholar.com/teaching-packs/](https://printablescholar.com/teaching-packs/)

# Parts of a Plant



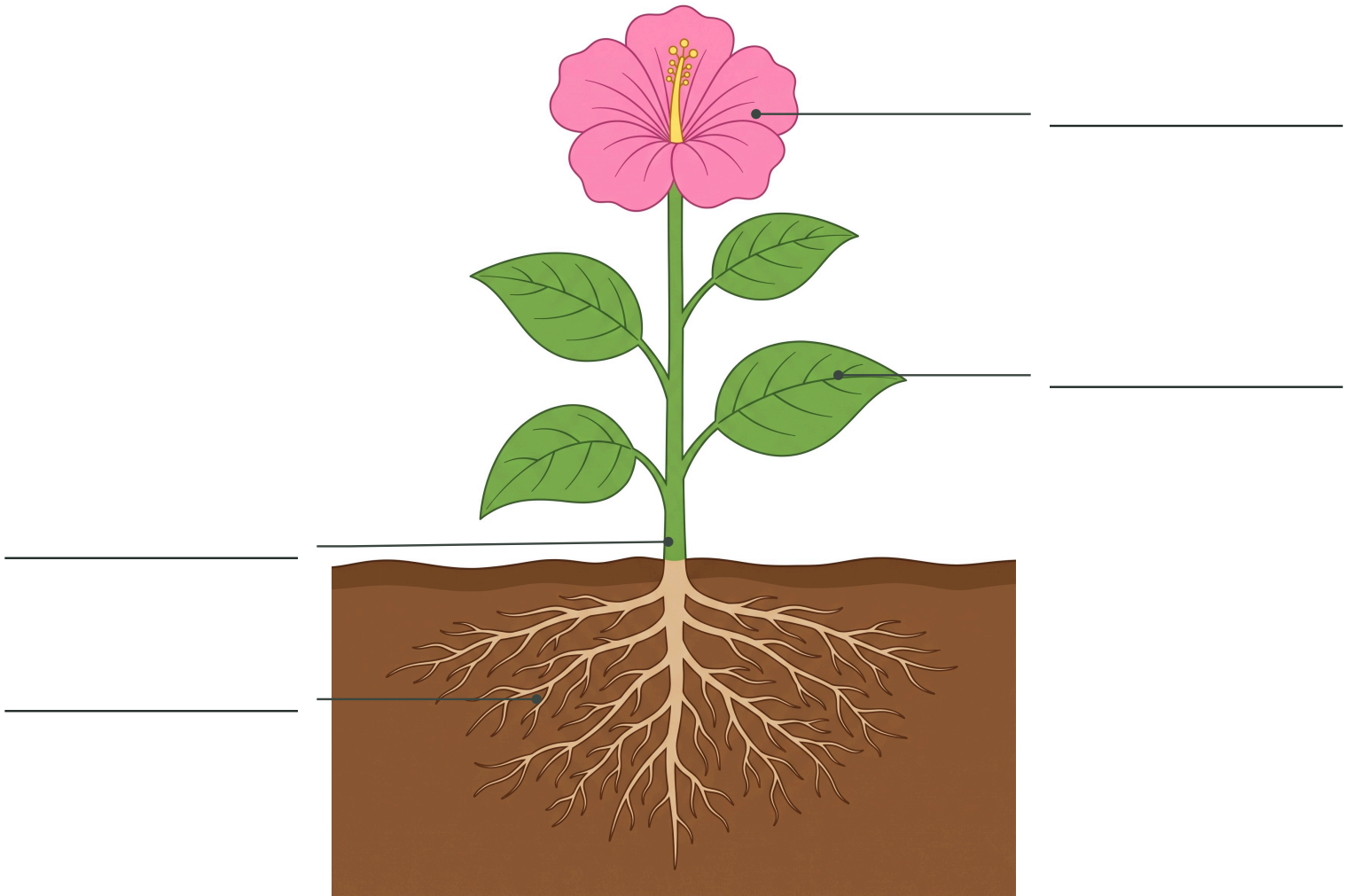
# Parts of a Flower



# Parts of a Plant

Name: \_\_\_\_\_

Write the name of each part on its line. Use the word bank.



**Word bank**

Flower

Leaf

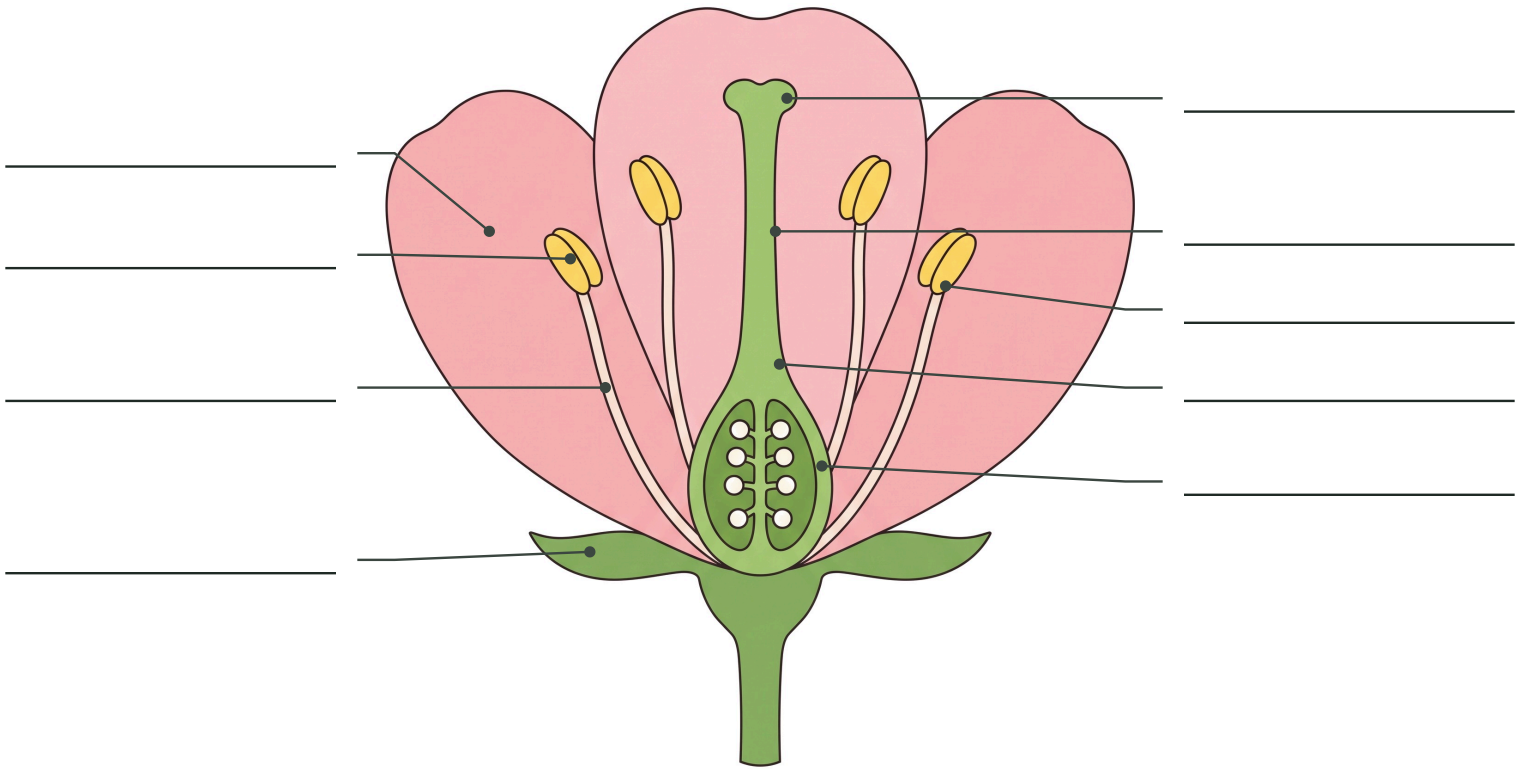
Roots

Stem

# Parts of a Flower

Name: \_\_\_\_\_

Write the name of each part on its line. Use the word bank.



## Word bank

Anther

Filament

Ovary

Petal

Pistil

Sepal

Stamen

Stigma

Style

# Parts of a Plant and Their Jobs

Use the labeled parts of a plant diagram to help you.

## Part A. Write the word that fits each description.

**Word bank**

Bud Flower Fruit Leaf Photosynthesis Roots Seed Stem

1. It holds the plant up and carries water and food from one part of the plant to another.

\_\_\_\_\_

2. A tiny young plant and its stored food are packed inside it.

\_\_\_\_\_

3. They hold the plant in the soil and soak up water and nutrients.

\_\_\_\_\_

4. The way a plant makes its own food from sunlight, air and water.

\_\_\_\_\_

5. It makes seeds so the plant can reproduce. It is often colorful.

\_\_\_\_\_

6. A young flower or leaf that has not opened yet.

\_\_\_\_\_

7. The flat green part where the plant makes its food.

\_\_\_\_\_

8. It forms after a flower is pollinated. It holds the seeds.

\_\_\_\_\_

## Part B. Answer the questions.

1. Which two parts move water from the soil up to the leaves? Tell what each one does.

\_\_\_\_\_  
\_\_\_\_\_

2. A plant is left in a dark closet for two weeks. Why does it stop growing well?

\_\_\_\_\_  
\_\_\_\_\_

3. Why does a plant need flowers?

\_\_\_\_\_

# Parts of a Flower and Their Jobs

Use the labeled parts of a flower diagram to help you.

## Part A. Write the part that does each job.

**Word bank**

Anther

Filament

Ovary

Petal

Pistil

Sepal

Stamen

Stigma

Style

1. The sticky top of the pistil. It catches pollen.

---

2. The thin stalk that holds up the anther.

---

3. The colorful part that attracts insects and birds to the flower.

---

4. The whole female part of the flower. It is made of the stigma, the style and the ovary.

---

5. It makes pollen. It sits at the top of the stamen.

---

6. The wide base of the pistil. It holds the ovules, which become seeds.

---

7. A small leaf-like part that protects the flower bud before it opens.

---

8. The whole male part of the flower. It is made of the anther and the filament.

---

9. The stalk that connects the stigma to the ovary.

---

## Part B. Answer the questions.

1. Which two parts make up the stamen?

---

2. Which three parts make up the pistil?

---

3. Many flowers have bright petals. How do bright petals help a plant make seeds?

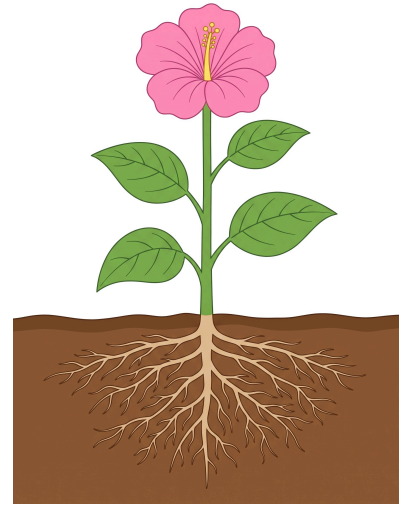
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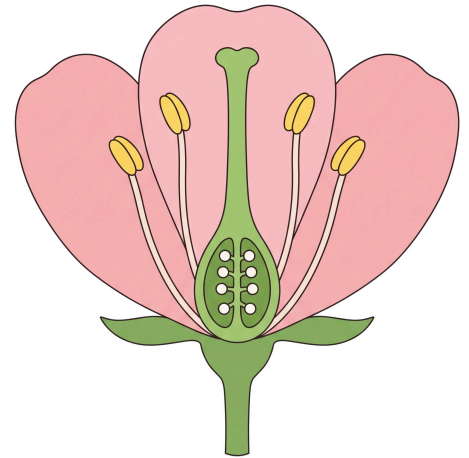
# How a Plant Works

Read the text. Then answer the questions on the next page.

- 1 A plant cannot walk around to find food or water. It has to get everything it needs right where it grows. A flowering plant has four main parts: **roots**, a **stem**, **leaves** and **flowers**. Each part has its own job.
- 2 The roots grow down into the soil. They hold the plant in place, and they soak up water and **nutrients**. The stem holds the plant up toward the light. Tiny tubes inside the stem carry water up from the roots. Other tubes carry food from the leaves to the rest of the plant.
- 3 Leaves make the plant's food. To do this, they need sunlight, water and a gas from the air called carbon dioxide. They use the energy in sunlight to turn the water and carbon dioxide into sugar. This is called **photosynthesis**. As a leaf makes food, it gives off oxygen.
- 4 Flowers make seeds. The male part of a flower is the **stamen**. Its tip, the anther, makes a fine powder called **pollen**. The female part is the **pistil**. It has a sticky top called the stigma and a wide base called the **ovary**. Colorful **petals** attract bees and other animals.
- 5 When a bee visits a flower, pollen sticks to its body. At the next flower, some of that pollen rubs off onto the stigma. This is called **pollination**. After that, seeds begin to grow inside the ovary. The ovary grows into a fruit with the seeds inside. A seed that lands in good soil can grow into a new plant.



A flowering plant. The roots grow under the soil.



A flower cut in half to show the parts inside.

# How a Plant Works: Questions

Go back to the text to find each answer. The paragraphs are numbered to help you.

**1. What is this text mostly about?**

- ☐ How bees make honey
- ☐ The main parts of a plant and what each one does
- ☐ How to grow a garden
- ☐ Why some flowers are red

**2. Name two jobs of the roots.**

---

**3. What do the tiny tubes inside the stem carry?**

- ☐ Pollen and seeds
- ☐ Water and food
- ☐ Sunlight and oxygen
- ☐ Petals and leaves

**4. What three things do leaves need to make food?**

---

**5. What gas does a leaf give off as it makes food?**

- ☐ Carbon dioxide
- ☐ Nitrogen
- ☐ Oxygen
- ☐ Helium

**6. Which part of a flower makes pollen?**

- ☐ The stigma
- ☐ The ovary
- ☐ The petals
- ☐ The anther

**7. Number the steps 1, 2 and 3 to show how a flower is pollinated (paragraph 5).**

- ☐ Seeds begin to grow inside the ovary.
- ☐ Pollen sticks to the body of a bee.
- ☐ At the next flower, pollen rubs off onto the stigma.

**8. What does the ovary grow into after pollination?**

---

# Which Part of the Plant Do We Eat?

Every food here comes from a plant. Read the clue and write the plant part. In science, a fruit is the part that grows from a flower and holds the seeds. Some parts are used more than once.

| FOOD            | CLUE                                                                                | PLANT PART |
|-----------------|-------------------------------------------------------------------------------------|------------|
| 1. Carrot       | It grows down into the soil and takes in water for the plant.                       | _____      |
| 2. Lettuce      | It is flat and green. It catches sunlight to make food for the plant.               | _____      |
| 3. Tomato       | It grows from a flower and has seeds inside.                                        | _____      |
| 4. Asparagus    | It is a young shoot that grows straight up and carries water up the plant.          | _____      |
| 5. Peas         | They grow in a row inside a pod. Each one holds a tiny young plant and stored food. | _____      |
| 6. Broccoli     | The top is a bunch of tiny green buds. Left to grow, they open into yellow blooms.  | _____      |
| 7. Spinach      | It is thin, flat and green. It makes food for the plant by photosynthesis.          | _____      |
| 8. Parsnip      | A pale relative of the carrot. It grows underground and holds the plant in place.   | _____      |
| 9. Cucumber     | It forms where a yellow flower was. Cut it open and you find seeds.                 | _____      |
| 10. Black beans | They grow inside a pod. Each one can grow into a new bean plant.                    | _____      |

**Word bank**

Flower

Fruit

Leaf

Root

Seed

Stem

## Think about it

A pumpkin is often called a vegetable. In science it is a fruit. How can you tell?

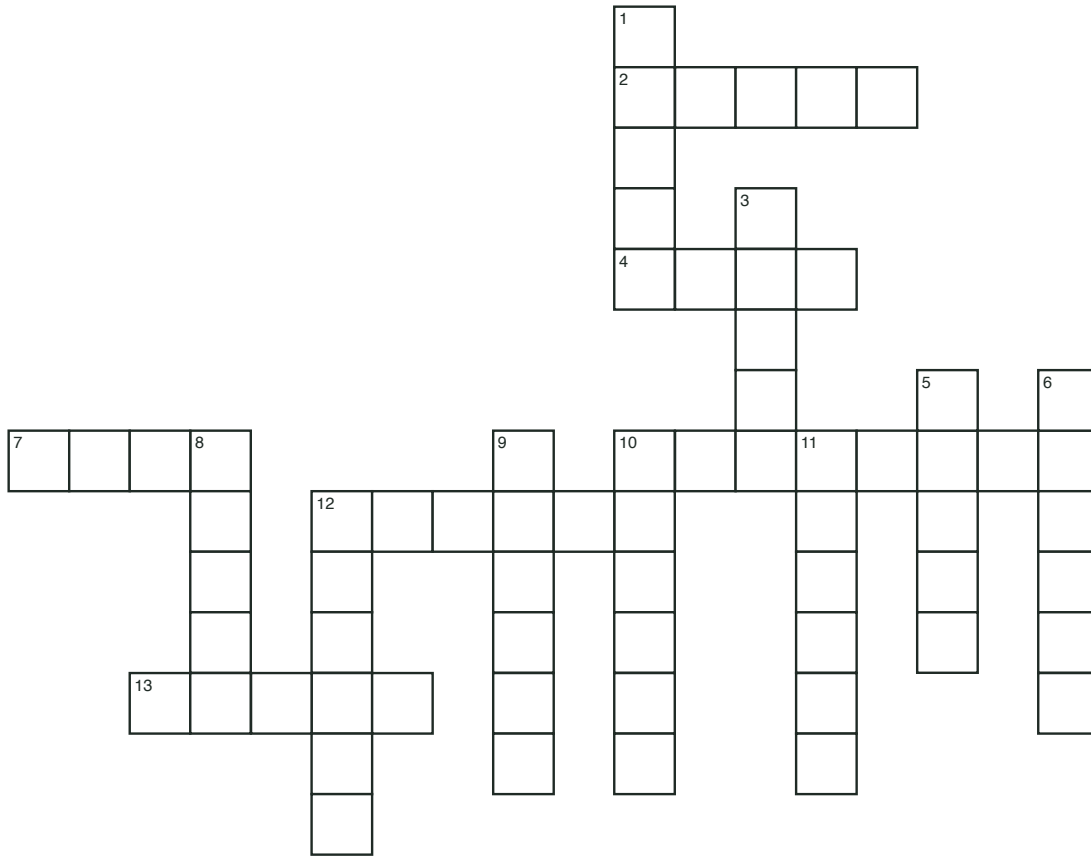
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# Parts of a Plant and Flower Crossword

Read each clue. Write the answer in the puzzle, one letter in each box. Use the word bank if you get stuck.



## ACROSS

2. The wide base of the female part. It holds the ovules.
4. It holds the plant up and carries water and food.
7. The flat green part where a plant makes its food.
10. The thin stalk that holds up the anther.
12. The whole female part of a flower.
13. The stalk between the stigma and the ovary.

## DOWN

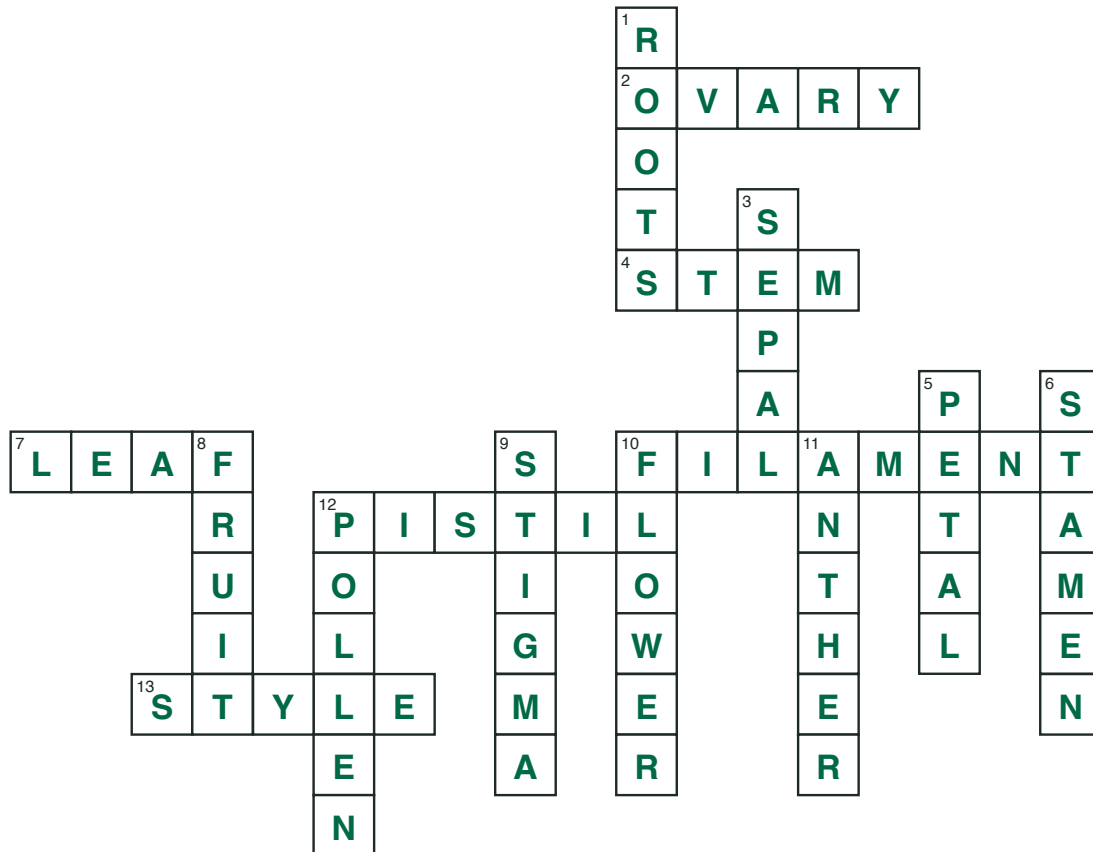
1. They hold a plant in the soil and soak up water.
3. A small leaf-like part that protects the bud before it opens.
5. A colorful part that attracts insects and birds.
6. The whole male part of a flower.
8. What the ovary grows into. It holds the seeds.
9. The sticky top of the female part. It catches pollen.
10. The part of a plant that makes seeds.
11. The tip of the male part. It makes pollen.
12. A fine powder made by the anther.

### Word bank

anther   filament   flower   fruit   leaf   ovary   petal   pistil   pollen   roots  
sepal   stamen   stem   stigma   style

# Parts of a Plant and Flower Crossword: Answer Key

Answers are in green.



## ACROSS

2. The wide base of the female part. It holds the ovules.
4. It holds the plant up and carries water and food.
7. The flat green part where a plant makes its food.
10. The thin stalk that holds up the anther.
12. The whole female part of a flower.
13. The stalk between the stigma and the ovary.

## DOWN

1. They hold a plant in the soil and soak up water.
3. A small leaf-like part that protects the bud before it opens.
5. A colorful part that attracts insects and birds.
6. The whole male part of a flower.
8. What the ovary grows into. It holds the seeds.
9. The sticky top of the female part. It catches pollen.
10. The part of a plant that makes seeds.
11. The tip of the male part. It makes pollen.
12. A fine powder made by the anther.

### Word bank

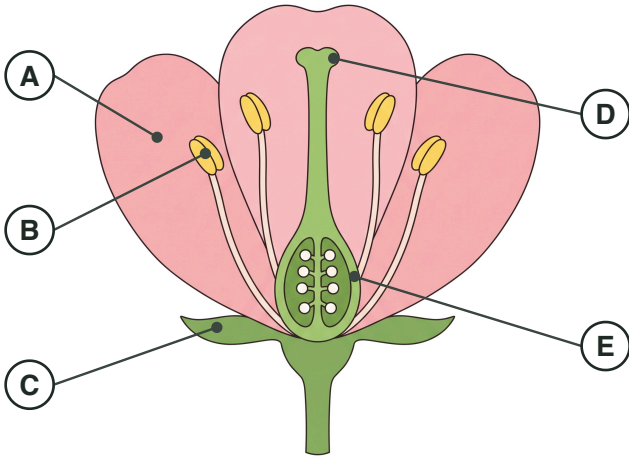
anther   filament   flower   fruit   leaf   ovary   petal   pistil   pollen   roots  
sepal   stamen   stem   stigma   style

# Parts of a Plant and Flower Quiz

Score \_\_\_\_\_ / 13

Show what you know about plants and flowers.

**Part A. This is a flower cut in half. Write the name of each part.**



- A \_\_\_\_\_  
B \_\_\_\_\_  
C \_\_\_\_\_  
D \_\_\_\_\_  
E \_\_\_\_\_

Anther · Ovary · Petal · Sepal · Stigma

**Part B. Choose the best answer.**

- Which part of a plant soaks up water and nutrients from the soil?  
☐ Leaf  
☐ Flower  
☐ Roots  
☐ Fruit
- Where does a plant make most of its food?  
☐ In the leaves  
☐ In the roots  
☐ In the seeds  
☐ In the soil
- Which part carries water from the roots up to the leaves?  
☐ Petal  
☐ Stem  
☐ Flower  
☐ Seed
- What is the whole male part of a flower called?  
☐ Pistil  
☐ Sepal  
☐ Petal  
☐ Stamen
- Which part of a flower catches pollen?  
☐ Anther  
☐ Stigma  
☐ Filament  
☐ Sepal
- Which part holds the ovules, which become seeds?  
☐ Ovary  
☐ Anther  
☐ Petal  
☐ Style

**Part C. Write your answer.**

7. Which three parts make up the pistil?

---

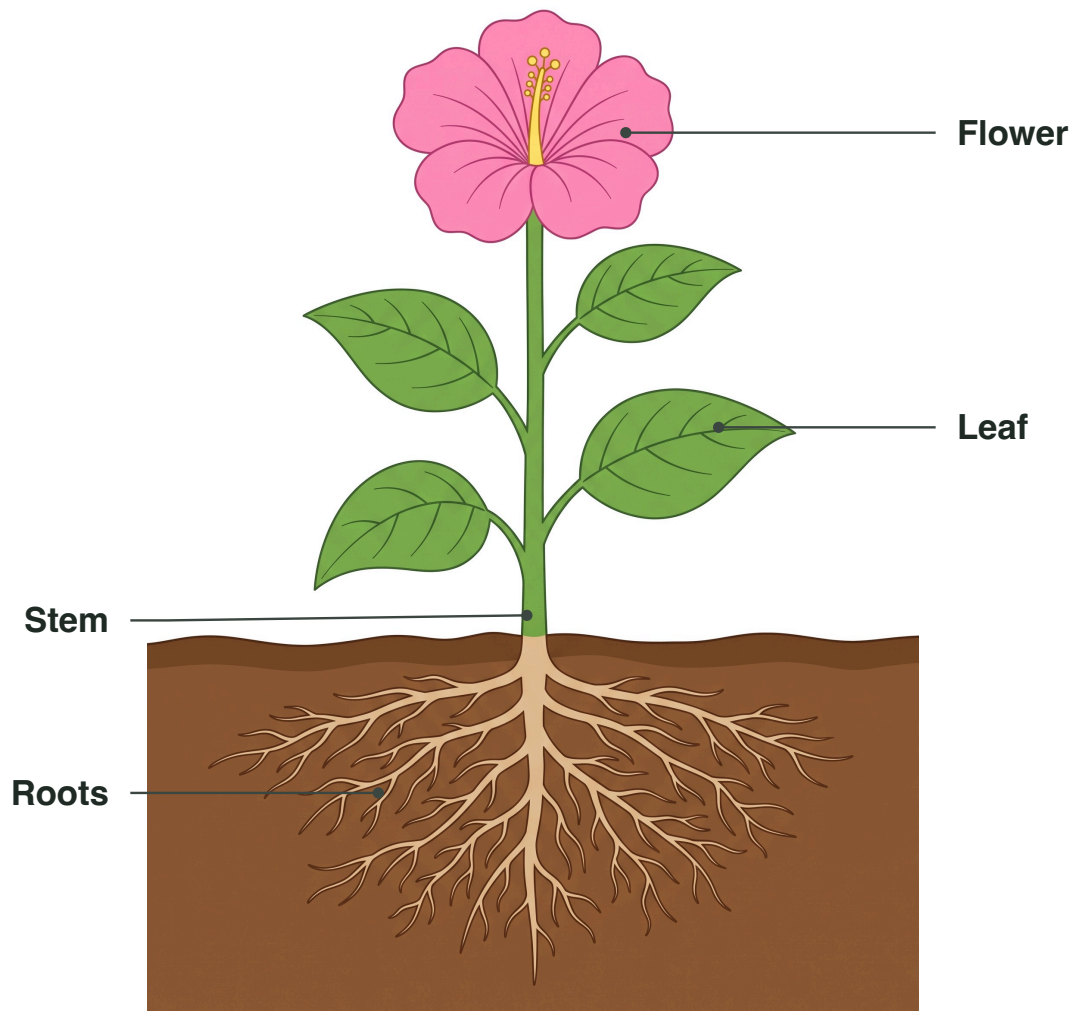
8. What is photosynthesis?

---

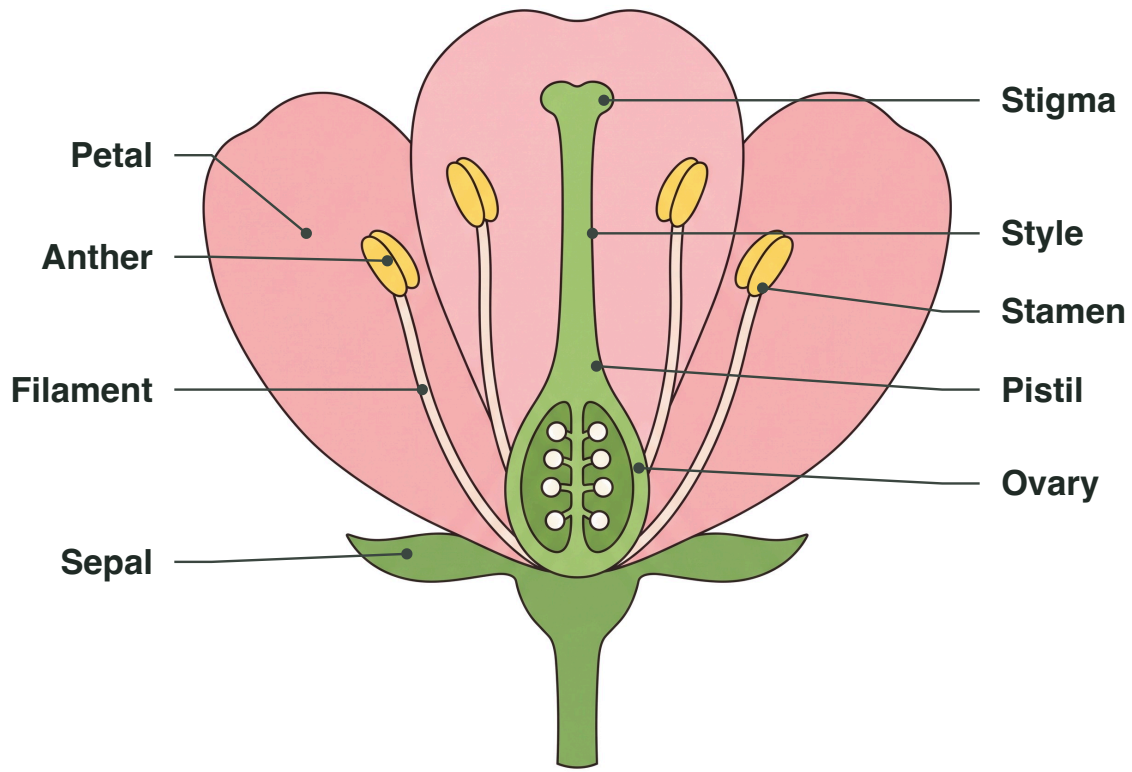
# **Answer Keys**

In the same order as the sheets.

# Parts of a Plant: Answer Key



# Parts of a Flower: Answer Key



# Parts of a Plant and Their Jobs: Answer Key

Answers are in green. Written answers will vary; these are examples.

## Part A. Write the word that fits each description.

**Word bank**

Bud

Flower

Fruit

Leaf

Photosynthesis

Roots

Seed

Stem

1. It holds the plant up and carries water and food from one part of the plant to another.

**Stem**

2. A tiny young plant and its stored food are packed inside it.

**Seed**

3. They hold the plant in the soil and soak up water and nutrients.

**Roots**

4. The way a plant makes its own food from sunlight, air and water.

**Photosynthesis**

5. It makes seeds so the plant can reproduce. It is often colorful.

**Flower**

6. A young flower or leaf that has not opened yet.

**Bud**

7. The flat green part where the plant makes its food.

**Leaf**

8. It forms after a flower is pollinated. It holds the seeds.

**Fruit**

## Part B. Answer the questions.

1. Which two parts move water from the soil up to the leaves? Tell what each one does.

**The roots soak up the water from the soil. The stem carries it up to the leaves.**

2. A plant is left in a dark closet for two weeks. Why does it stop growing well?

**Its leaves need sunlight to make food. Without light, the plant cannot make the food it needs to grow.**

3. Why does a plant need flowers?

**Flowers make seeds, and new plants grow from seeds.**

# Parts of a Flower and Their Jobs: Answer Key

Answers are in green. Written answers will vary; these are examples.

## Part A. Write the part that does each job.

**Word bank**

Anther

Filament

Ovary

Petal

Pistil

Sepal

Stamen

Stigma

Style

1. The sticky top of the pistil. It catches pollen.

**Stigma**

2. The thin stalk that holds up the anther.

**Filament**

3. The colorful part that attracts insects and birds to the flower.

**Petal**

4. The whole female part of the flower. It is made of the stigma, the style and the ovary.

**Pistil**

5. It makes pollen. It sits at the top of the stamen.

**Anther**

6. The wide base of the pistil. It holds the ovules, which become seeds.

**Ovary**

7. A small leaf-like part that protects the flower bud before it opens.

**Sepal**

8. The whole male part of the flower. It is made of the anther and the filament.

**Stamen**

9. The stalk that connects the stigma to the ovary.

**Style**

## Part B. Answer the questions.

1. Which two parts make up the stamen?

**The anther and the filament.**

2. Which three parts make up the pistil?

**The stigma, the style and the ovary.**

3. Many flowers have bright petals. How do bright petals help a plant make seeds?

**They attract insects and birds. These visitors carry pollen from flower to flower, and a flower needs pollen to make seeds.**

# How a Plant Works: Answer Key

Answers are in green. Written answers will vary; these are examples.

**1. What is this text mostly about?**

- ☐ How bees make honey
- ☒ **The main parts of a plant and what each one does**
- ☐ How to grow a garden
- ☐ Why some flowers are red

**2. Name two jobs of the roots.**

**They hold the plant in place. They soak up water and nutrients.**

---

**3. What do the tiny tubes inside the stem carry?**

- ☐ Pollen and seeds
- ☒ **Water and food**
- ☐ Sunlight and oxygen
- ☐ Petals and leaves

**4. What three things do leaves need to make food?**

**Sunlight, water and carbon dioxide.**

---

**5. What gas does a leaf give off as it makes food?**

- ☐ Carbon dioxide
- ☐ Nitrogen
- ☒ **Oxygen**
- ☐ Helium

**6. Which part of a flower makes pollen?**

- ☐ The stigma
- ☐ The ovary
- ☐ The petals
- ☒ **The anther**

**7. Number the steps 1, 2 and 3 to show how a flower is pollinated (paragraph 5).**

- 3** Seeds begin to grow inside the ovary.
- 1** Pollen sticks to the body of a bee.
- 2** At the next flower, pollen rubs off onto the stigma.

**8. What does the ovary grow into after pollination?**

**A fruit with the seeds inside.**

---

# Which Part of the Plant Do We Eat?: Answer Key

Answers are in green. The last answer will vary; one example is given.

| FOOD                                                        | CLUE                                                                                | PLANT PART |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|
| 1. Carrot                                                   | It grows down into the soil and takes in water for the plant.                       | Root       |
| 2. Lettuce                                                  | It is flat and green. It catches sunlight to make food for the plant.               | Leaf       |
| 3. Tomato                                                   | It grows from a flower and has seeds inside.                                        | Fruit      |
| 4. Asparagus                                                | It is a young shoot that grows straight up and carries water up the plant.          | Stem       |
| 5. Peas                                                     | They grow in a row inside a pod. Each one holds a tiny young plant and stored food. | Seed       |
| 6. Broccoli                                                 | The top is a bunch of tiny green buds. Left to grow, they open into yellow blooms.  | Flower     |
| 7. Spinach                                                  | It is thin, flat and green. It makes food for the plant by photosynthesis.          | Leaf       |
| 8. Parsnip                                                  | A pale relative of the carrot. It grows underground and holds the plant in place.   | Root       |
| 9. Cucumber                                                 | It forms where a yellow flower was. Cut it open and you find seeds.                 | Fruit      |
| 10. Black beans                                             | They grow inside a pod. Each one can grow into a new bean plant.                    | Seed       |
| <b>Word bank</b> Flower   Fruit   Leaf   Root   Seed   Stem |                                                                                     |            |

## Think about it

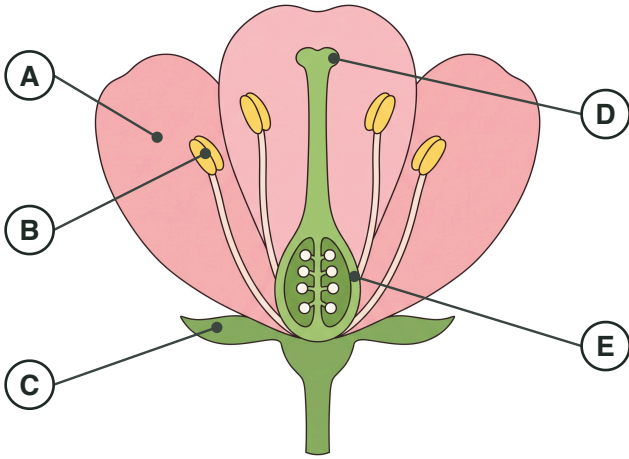
A pumpkin is often called a vegetable. In science it is a fruit. How can you tell?

**Answers will vary. Example: A pumpkin grows from a flower and has seeds inside, so it is a fruit.**

# Parts of a Plant and Flower Quiz: Answer Key

Answers are in green. Written answers will vary; these are examples.

**Part A. This is a flower cut in half. Write the name of each part.**



A **Petal**

B **Anther**

C **Sepal**

D **Stigma**

E **Ovary**

Anther · Ovary · Petal · Sepal · Stigma

**Part B. Choose the best answer.**

1. Which part of a plant soaks up water and nutrients from the soil?

- ☐ Leaf
- ☐ Flower
- ☒ **Roots**
- ☐ Fruit

2. Where does a plant make most of its food?

- ☒ **In the leaves**
- ☐ In the roots
- ☐ In the seeds
- ☐ In the soil

3. Which part carries water from the roots up to the leaves?

- ☐ Petal
- ☒ **Stem**
- ☐ Flower
- ☐ Seed

4. What is the whole male part of a flower called?

- ☐ Pistil
- ☐ Sepal
- ☐ Petal
- ☒ **Stamen**

5. Which part of a flower catches pollen?

- ☐ Anther
- ☒ **Stigma**
- ☐ Filament
- ☐ Sepal

6. Which part holds the ovules, which become seeds?

- ☒ **Ovary**
- ☐ Anther
- ☐ Petal
- ☐ Style

**Part C. Write your answer.**

7. Which three parts make up the pistil?

**The stigma, the style and the ovary.**

8. What is photosynthesis?

**The way a plant makes its own food from sunlight, air (carbon dioxide) and water.**