












Plants

How can we identify different plants and trees?

Lesson 2

What are the parts of a plant?

Scientific enquiry types and skills



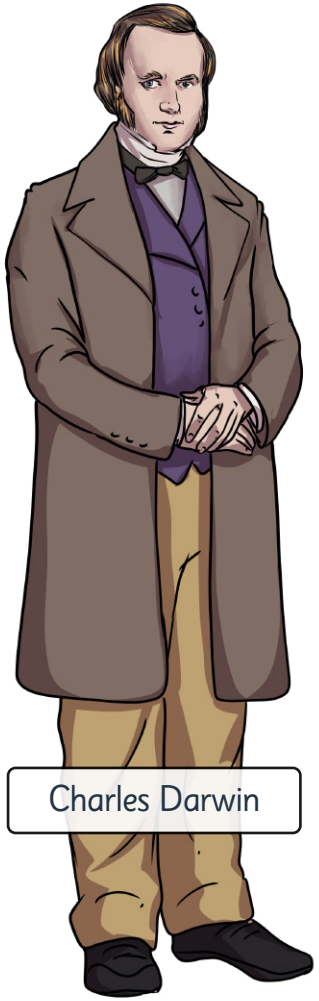
Scientific enquiry types

- Testing
- Researching
- Observing
- Pattern seeking
- **Identifying & classifying** ✓
- Problem solving

Working scientifically skills

- Asking questions
- Making predictions
- Setting up tests
- **Observing & measuring** ✓
- Recording data
- Interpreting & communicating results
- Evaluating

How can we identify different plants and trees?



Charles Darwin

Lesson 1: What is a plant?

Lesson 2: What are the parts of a plant?

Lesson 3: How do plants start to grow?

Lesson 4: How are flowers different?

Lesson 5: How do plants change as they grow?

Lesson 6: What makes trees different from other plants?

Lesson 7: Why do some trees keep their leaves?

Lesson 8: Which part of the plant do we eat?



Agnes Arber

Key vocabulary for this lesson



stem – part of a plant that supports leaves and flowers



petal – part of a flower that is often colourful



flower – part of a plant that helps to make new plants



leaves – part of a plant that makes food



plant – a living thing that often has roots, stem and leaves



roots – part of a plant that is underground

Identifying and classifying



Hi, I'm **Earle**. I look after lots of plants in gardens and parks. Today we're going to look closely at real plants so we can **identify** and **name** the different **parts of a plant**.



Let's recap



Last lesson we learnt that **plants** are **living things**.
They are often green and have **leaves** and **roots** .

Which of these pictures shows a **plant**?







Discuss this question with your **learning partner**. Be ready to **share your feedback** with the class.

Let's recap

answers

Identifying & classifying





This plant is growing in a pot.



This is a toy plant.



This plant is a big tree.

Parts of a plant



Let's look at some plants in my garden. What shapes and colours can you see? Do you know what the parts of the plant are called?



Use these **sentence starters** to help you:

"I can see…"

"I know a part of the plant called…"

Discuss these questions with your **learning partner**.

Be ready to **share your feedback** with the class.

Roots

Identifying & classifying



Have you noticed that part of a plant grows underground in the soil? These are called **roots** .

What **colour** are these roots? Are roots always the **same colour**?



roots

Discuss these questions with your **learning partner**.
Be ready to **share your feedback** with the class.

Roots

Roots are important for the plant to get **water** and for **holding the plant in the ground**.



Small plants like grass have **roots**.



Big plants like trees have **deep roots**.



We even **eat the roots** of some plants like these **carrots**!

Stem



Many plants have a **stem**  . This is the part of a plant that **holds up the leaves** and sometimes the **flowers** too.



Stem

The **stem** helps to transport **water** and **nutrients** all around the plant.



Some plants have a **short stem**.



Some have a **long stem**.



Some stems are very unusual!

Leaves

Identifying & classifying

Leaves are the part of a plant that **makes food**. Leaves come in all **shapes** and **sizes**.



small leaves



big leaves



spiky leaves

Flowers

Identifying & classifying

Some plants have **flowers** . Flowers might have **brightly coloured petals** to attract insects. A flower is the part of a plant that helps it to make **seeds**.







A flower might only have just a few petals or it could have lots.

Let's watch



Let's find out more about the **parts of a plant** and what the **job** of each part is.



[The parts of a plant – KS1 Science curriculum - BBC Bitesize]

Activity 1

Identifying & classifying

Observing & measuring



Now it's your turn. Study the **real plants** on your table. Use your **magnifier** to look closely at the **roots**, the **stem**, the **leaves** and any **flowers**.



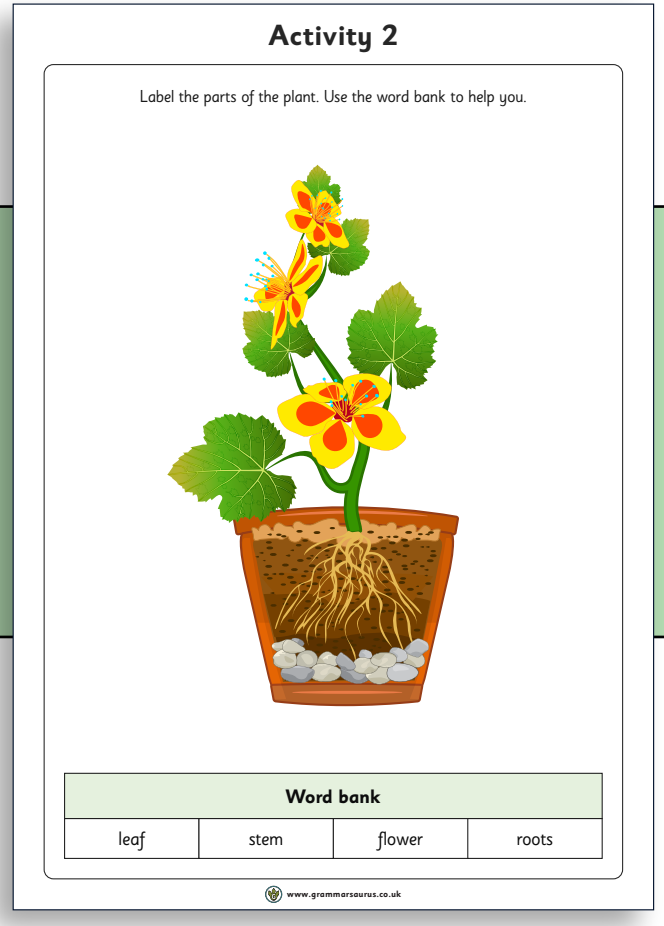
Activity 2

Identifying & classifying



Using the clues you spotted in activity 1, label the parts of the plant on your **activity 2 worksheet**.

Use the **word bank** to help you.



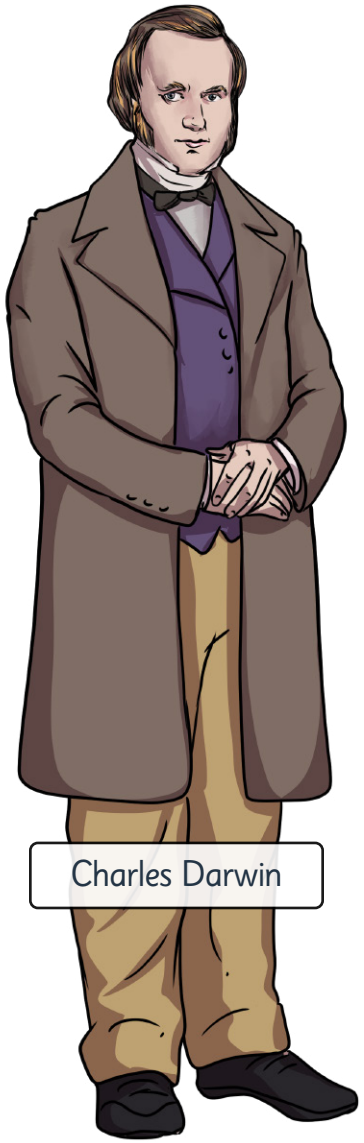
Activity 2

Label the parts of the plant. Use the word bank to help you.

Word bank			
leaf	stem	flower	roots

www.grammarsaurus.co.uk

Challenge



Charles Darwin

Discuss the following question with your **learning partner**.

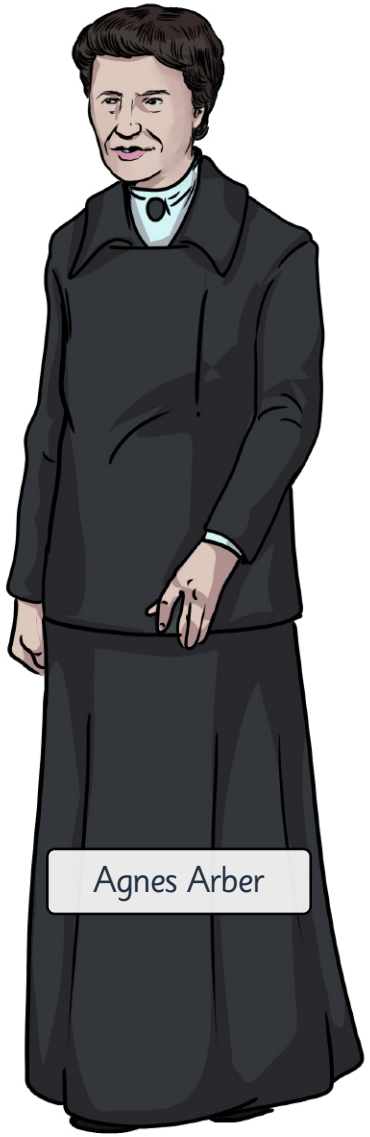
How can you tell something is a plant even if you can't see any leaves?



Be ready to **share your feedback** with the class before the **answers** are revealed.

Use these **sentence starters** to help you:

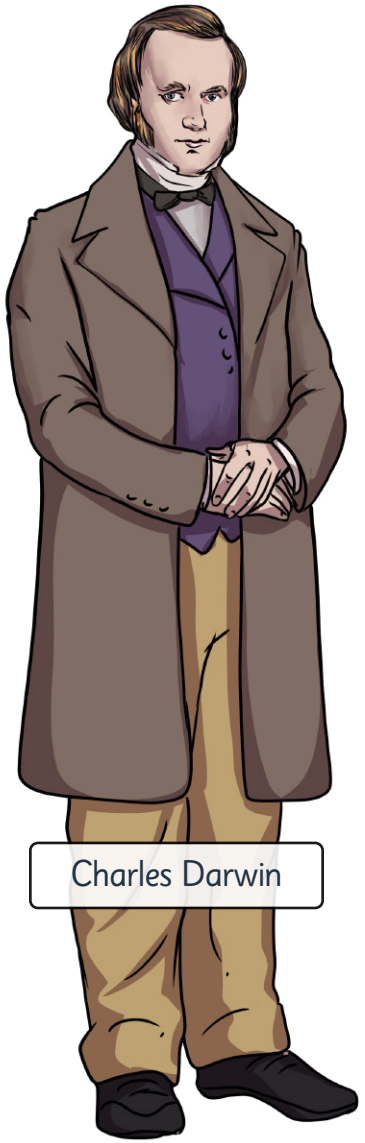
"You can tell it is a plant because…"
"Not all plants have …"
"If it has roots and a stem…"



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Challenge

answers



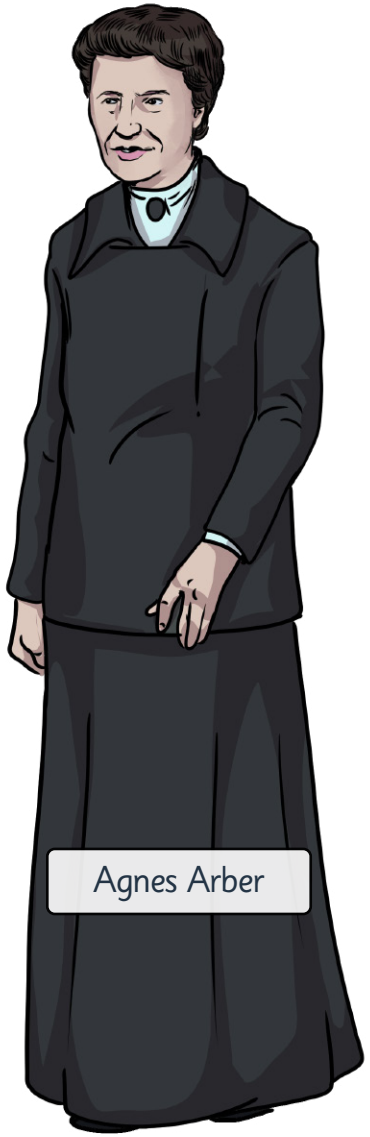
Charles Darwin

How can you tell something is a plant even if you can't see any leaves?

You can tell it is a plant if it has roots and a stem.

Not all plants have big leaves.

If it has roots and a stem, the leaves just might not have grown yet.



Agnes Arber