





Meet Quizby!

Can you spot me in the

Lesson Presentation?

The questions that appear will help you to think about the key learning throughout the lesson.





Aim

• To explain what plants need to grow and stay healthy.

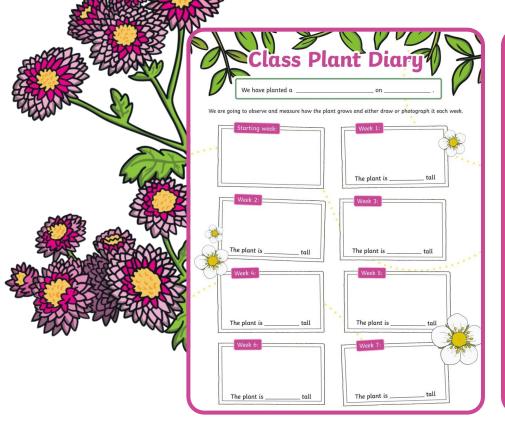
Success Criteria

- I can observe and explain what has happened to the plants in our test.
- I can suggest what has caused the plants to look like they do.
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Remember It

Let's look at our class plant and see how it is growing. We can measure its growth and draw or photograph it for our Class Plant Diary from Lesson 1!

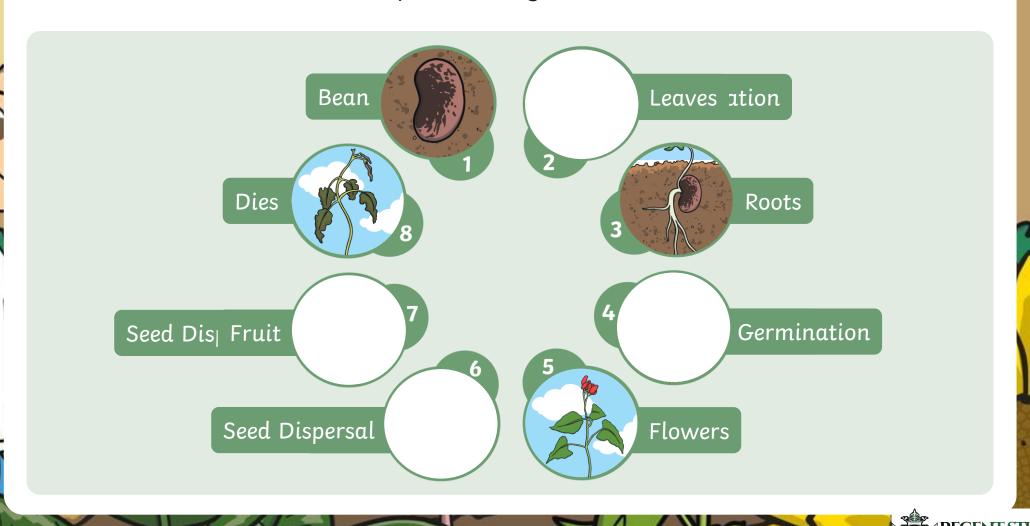






Remember It

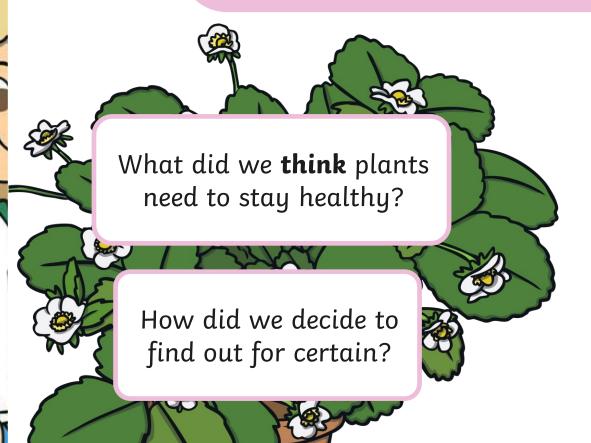
Can you spot which stages of this plant's life cycle have been mixed up? Explain how you know.







In Lesson 1, we started a test to find out what plants need to stay healthy.





Today, we are going to look at our plants to find out **what happened**.



What did we change each time?

What did you think would happen?



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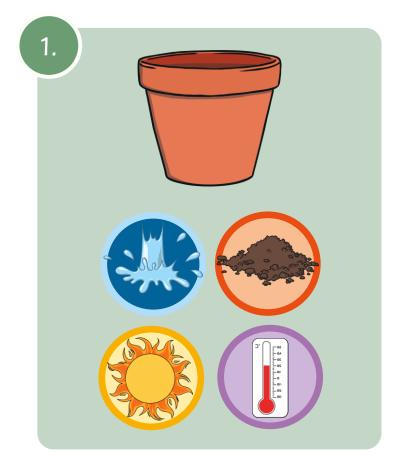
Let's start with the plant that had **everything** we think a plant needs to grow and stay healthy (Plant 1).

What can you see?

Is this what we thought would happen?

Were we right?

Did anything else happen?





Let's record what has happened to Plant 1 on the What Happened to our Plants? Activity Sheet.



Plant 1 had soil, water, light and the right temperature.

This is what the plant looks like:

Has this plant grown? yes no Is this plant healthy? yes no



Now let's look at the other plants.

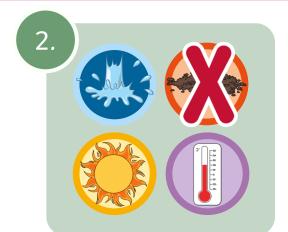
For each plant, discuss:

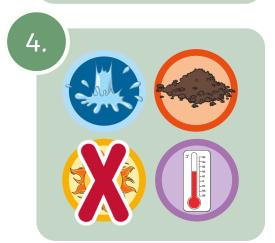
What can you see?

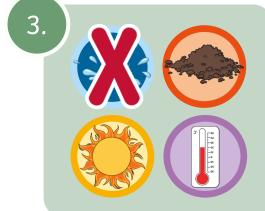
Is this what we thought would happen?

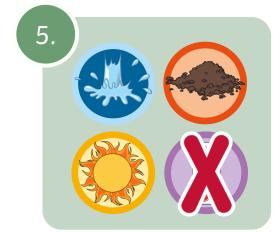
Were we right?

Did anything else happen?





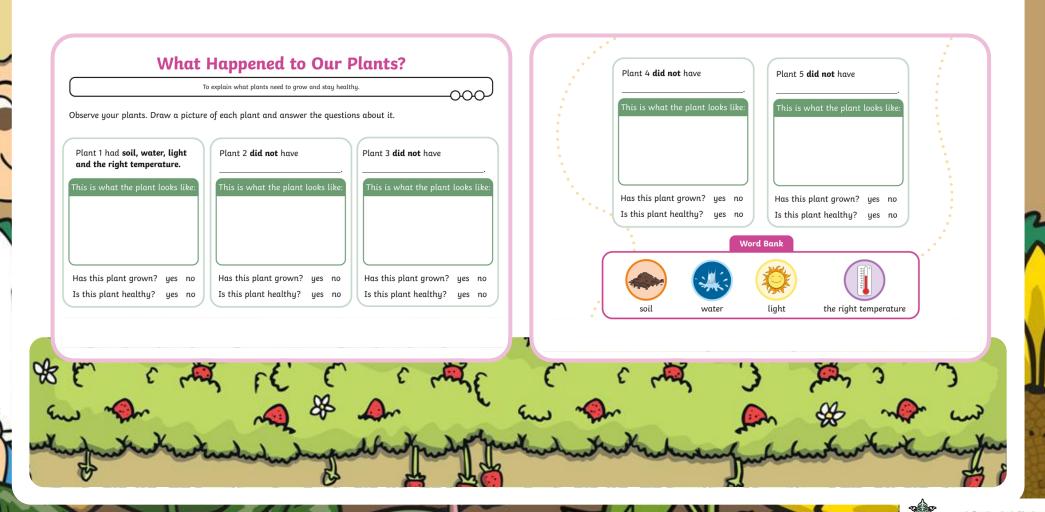






What Happened to Our Plants?

We can record what happened to each of the other plants on the What Happened to Our Plants? Activity Sheet.



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When scientists have found out what happened in their test, they **compare** this to what other scientists have found out before, to see if it's what was expected.

So we are going to **compare** what happened to our plants to what other scientists think.

Which plant grow the most healthilu? How do you know?

Did

From what we have observed, let's list what we now think **plants need to grow well**.

What happened to the plant without suplight? Why do you think this is?

What hap

How does our list compare to what other scientists think? How can we find out?

ık this is?

s is?



What might a scientist do if they had surprising results in their tests?

servations? Why?





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Plants: What Do Plants Need to Stay Healthy? Part 1

Aim **Lesson Duration** Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. All timings are mins approximate. Using their observations and ideas to suggest answers to questions. To explain what plants need to grow and stay healthy. **Success Criteria Key Vocabulary** I can observe and explain what has happened to the plants in our Water, sunlight, temperature, soil, test, observe, observations, scientists, compare. I can suggest what has caused the plants to look like they do. I can suggest what things a plant needs to stay healthy, based on my observations. **Resources That May Need Purchasing** Preparation **Lesson Pack** Differentiated What Happened to Our Plants? Activity Sheet - one per child or A3 per group Ensure that the plants from Lesson 1 are ready for children to

Prior Learning: In the previous lesson, children learnt about the life cycle of a plant and began to identify which stage in its life cycle a plant is at. In the first lesson of this unit, children set up an investigation to find out what plants need to stay healthy.

observe.

Learning Sequence



Remember It: As a class, look at the class plant and record its growth in the Class Plant Diary. Use the Lesson **Presentation** to recap prior learning about the life cycle of a plant.





What Do Plants Need to Grow? Using the Lesson Presentation, review with the children the investigation they set up in Lesson 1 of this unit.



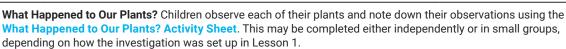
Explain that today we are going to carefully observe the plants to find out whether we were correct about what plants need to grow well. Use the Lesson Presentation to begin to model how to look at each plant carefully and how to record our observations using the What Happened to Our Plants? Activity Sheet.

Continue to model how to carefully observe and record results (you may or may not wish to use the term 'results' with your class) with the rest of the plants.

Can the children explain what has happened to the plants?

You could also ask children to think about how this compared to what they thought would happen (their predictions) and offer ideas about why things happened/did not happen.







Can the children explain what they can see, why they think this has happened and how it compares to what they thought would happen?



Children complete the sheet with their observations of what happened to the plants. They are supported with a word bank with symbols.



Children complete the sheet with their observations, make comparisons and explain their answers.



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What Do Plants Need to Grow Well? Using the questions on the Lesson Presentation, ask each group to explain what they found out from their investigation. Note: If there are unexpected results, for example if the plant with no water grew, discuss with the children why this could be. Did something unexpected affect their investigation? Explain that this is what scientists would do if there were unexpected results.



Ensure that children understand that without some of the things they need, plants may begin to grow, but may not grow as healthily. Look closely at the colour, shape and size of the plants to reinforce this understanding.

Finalise, together as a class, a list of what plants need to grow well. This could be displayed on a working wall.

Discuss how we can use our **Growing, Growing, Grown eBook** and other non-fiction texts to check that what we think is correct (according to other scientists).

Can the children compare their results to those of the other groups in the class? Can they offer ideas about any similarities and differences?



Growing, Grown: Read pages 19-20 of the **eBook** together to learn more about what plants need to grow well, and compare this information to the results of our investigation.



Can children compare their list of what plants need to the information in a secondary source?

Exploreit

Growit: Children could use their findings to plant and grow their own cress heads using egg shells. They could have a competition to see

which cress head grows the longest.

Tendit: Children could be given the opportunity to tend to a class or school plant/plants, using what they have learnt during the lesson to

help them.

Reasonit

Children discuss Reasoning Card 4 What Do Plants Need to Grow Well? Part 1, explaining why they think the plants have grown how they have, what might have happened and what a healthy plant should look like.

Assessment

Scientific Knowledge	
Working Towards the Expected Level	Children:
With support, children begin to explain that plants need water, light and a suitable temperature to grow and stay healthy.	
Working At the Expected Level	Children:
Children explain that plants need water, light and a suitable temperature to grow and stay healthy.	
Working At Greater Depth	Children:
Children explain that plants need water, light and a suitable temperature to grow and stay healthy and explain the reasons why plants have or have not grown well.	
Working Scientifically	
Working Towards the Expected Level	Children:
With support, children can notice links between cause and effect and talk about their findings to a variety of audiences.	
Working At the Expected Level	Children:
Children can notice links between cause and effect and talk about their findings to a variety of audiences in a variety of ways.	
Working At Greater Depth	Children:
Children can notice links between cause and effect with support and talk about their findings to a variety of audiences in a variety of ways. They can also identify and discuss differences between their results.	



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				Delive	Delivered By:			Support:		
Success Criteria	Me	Friend	Teacher	т	PPA	s	I	AL	GP	
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I can suggest what things a plant needs to stay healthy, based on my observations.										
Next Steps										
•										
•										
		т	Teacher				I :	Independent		

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