





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 describe what happens if plants don't get all the things they need.

Success Criteria

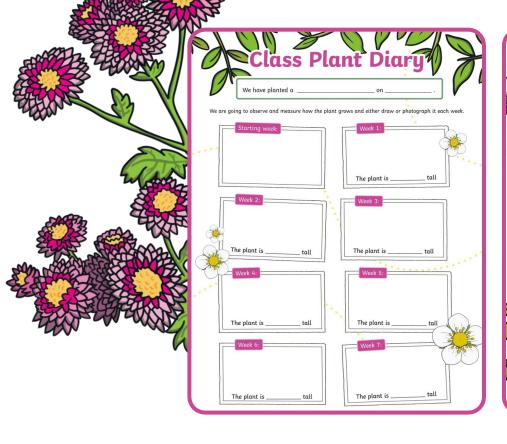
- I can say what a plant looks like if it has not had everything it needs.
- I can identify a healthy plant and an unhealthy plant.
- I can suggest what a plant needs to be healthy again.





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 remember what you found out from our investigation?

Use your **observations** to complete this quiz.

If a seed gets no water, it will:

germinate

not germinate Without light, a plant will:

grow strong and healthy, with green leaves and stem

grow tall and weak, with yellow leaves and thin stem

not grow at all





Remember It

All seeds need soil to germinate.

True False

Seeds must have light, water, soil and the right temperature to germinate.

True False

Most seeds can **germinate** without light. Once they have started to grow, they need sunlight to **grow well** and will eventually die without it.





Are All Plants the Same?

Think about each of these questions, then discuss your answers with your partner.

Do you think all plants need the same temperature to grow?

Can you think of any examples of plants that grow in different temperatures?

of water?

Do all plants need the same amount

Can you think of any plants that need more or less water than others?

Do all plants need soil to grow strong and healthy?

Can you think of any plants that don't need soil?

Do you think all plants need to same amount of sunlight?

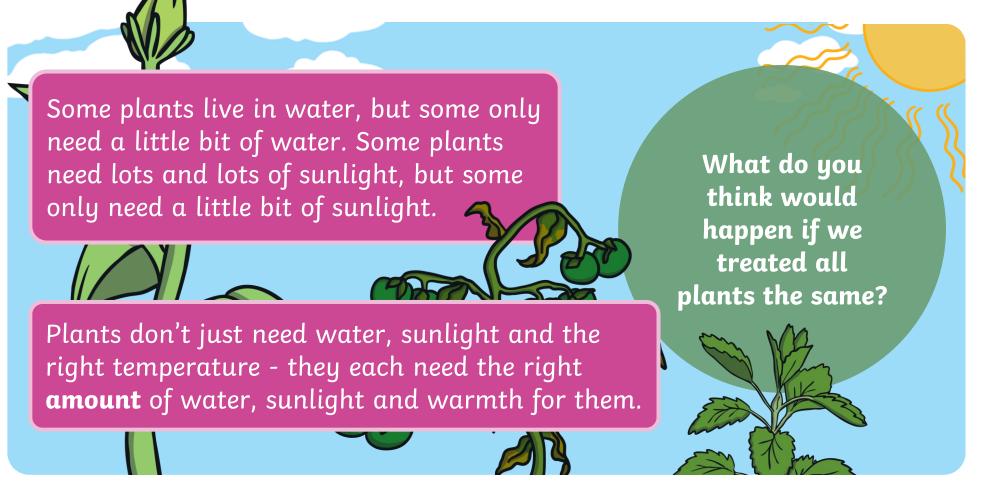
Why or why not?





Are All Plants the Same?

Just like people, plants are all different and they all need different amounts of things.







Are All Plants the Same?

When plants get the right amount of the things they need, they look **healthy**. These are **healthy** plants. What can you see?







Honlthu nlants look strong Their leaves are usually green



When a plant loses its flowers, does this always mean it's unhealthy?

keep their colour.











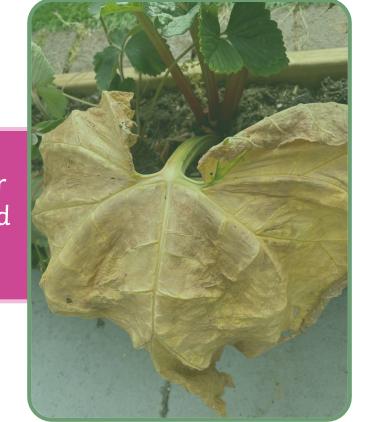






























Yes. Plants need the **right amount** of water, but not too much.

A plant that is overwatered may have limp, droopy leaves that start to turn a lighter shade of green or even yellow.

This can sometimes make it tricky to tell if a plant needs more water or less water!

An overwatered plant's leaves may also curl inwards and the soil may look very soggy and wet.







Healthy or Not?

Here are some different plants.

With a partner, look at each one and decide if it is healthy or not.

If it's not healthy, discuss what you think it might need to be healthy again.



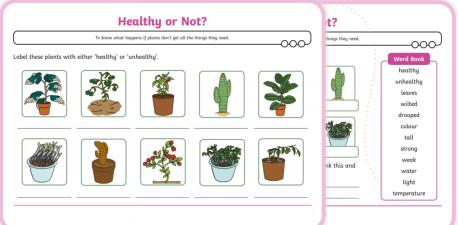




Healthy or Not?

Complete the Healthy or Not? Activity Sheet.





Healthy or Not? Choose three plants from the pictures that you think are unhealthy. For each plant, explain why you think this and what you think it needs to be healthy again.

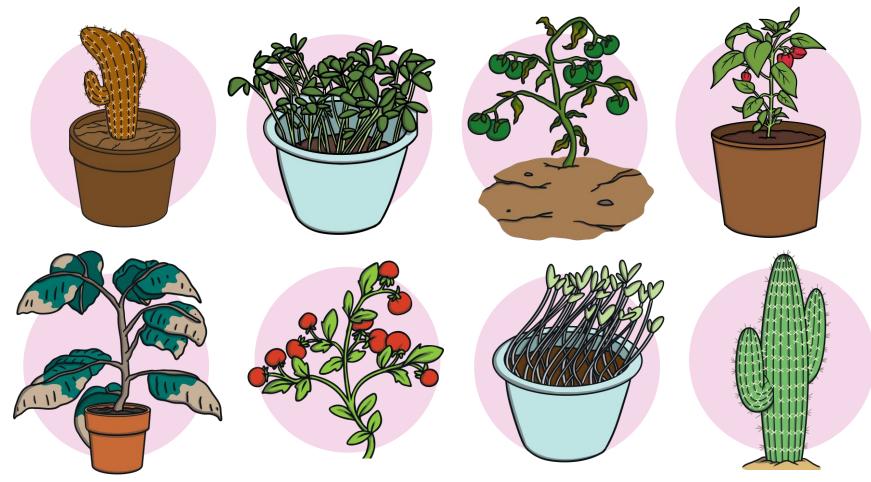
word Bank
healthy
unhealthy
leaves
wilted
drooped
colour
tall
strong
weak
water





Help the Plants

Which plants do you think look **healthy**? How do you know? Which plants do you think look **unhealthy**? How do you know?





Aim



• To describe what happens if plants don't get all the things they need.

Success Criteria

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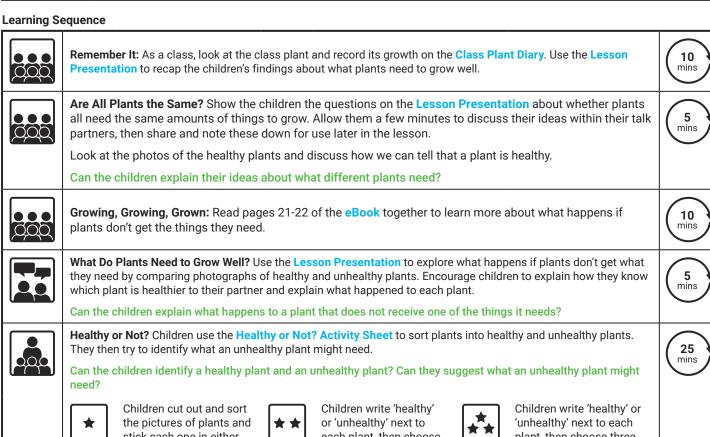




Plants: What Do Plants Need to Stay Healthy? Part 2

Aim Find out and describe how plants need water, light and a suitable to Using their observations and ideas to suggest answers to question	Lesson Duration All timings are approximate.	60 mins	
To describe what happens if plants don't get all the things they nee	d.		
Success Criteria I can say what a plant looks like if it has not had everything it needs.	Key Vocabulary Water, sunlight, temperature, growstrong, weak, droop, wilt.	v, healthy, unhealthy,	
I can identify a healthy plant and an unhealthy plant.			
I can suggest what a plant needs to be healthy again.			
Standard School Equipment	Preparation		
None	Lesson Pack		
	Differentiated Healthy or Not? Ac	tivity Sheet - one per child	d

Prior Learning: In the previous lesson, children observed how the plants in their investigation had grown. They created a list of what they think plants need to grow well, based on their observations.





stick each one in either the 'healthy' or 'unhealthy' group.



each plant, then choose one unhealthy plant and explain how they know it is unhealthy and what they think it might need, using the word bank to help.



plant, then choose three unhealthy plants and explain how they know each is unhealthy and what it might need. As a challenge, they can explain whether or not plants all need the same amounts of the same things.



Help the Plants: Look at the plants on the Lesson Presentation together and discuss the ideas that children had during their independent activity. Focus on the clues that show what each plant might need, such as soil that looks too dry or too wet and the shape and colour of the plant's leaves.



Can children suggest what a plant needs to be healthy again?



Exploreit

Designit: Children can use their knowledge of what plants need to stay healthy to design a poster or fact sheet explaining how to care

for a plant

Investigateit: Children could investigate how a fully-grown plant reacts when it does not receive one of the things it needs. Children could

take photographs to record their observations. They could then find out whether the plant can be restored to health or not, by

giving it what they think it needs.

Reasonit

Children discuss Reasoning Card 5 What Do Plants Need to Grow Well Part 2. Children sort and discuss the healthy and unhealthy plants, explaining what they think has happened to each.

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. They begin to identify what happens if a plant does not get everything it needs.	
Working At the Expected Level	Children:
Children explain that plants need water, light and a suitable temperature to grow and stay healthy. They can begin to explain what happens if a plant does not get everything it needs.	
Working At Greater Depth	Children:
Children explain that plants need water, light and a suitable temperature to grow and stay healthy. They can explain what happens if a plant does not get everything it needs.	
Working Scientifically	
Working Towards the Expected Level	Children:
With support, children can notice links between cause and effect.	
Working At the Expected Level	Children:
Children can notice links between cause and effect and begin to explain what is happening with support.	
Working At Greater Depth	Children:
Children can notice links between cause and effect and explain what is happening.	



Aim: To describe what happens if plants don't get all the things they need.				Date:					
				Delive	Delivered By:			Support:	
Success Criteria	Me	Friend	Teacher	т	PPA	s	I	AL	GP
I can say what a plant looks like if it has not had everything it needs.				Notes	/Eviden	ce			
I can identify a healthy plant and an unhealthy plant.									
I can suggest what a plant needs to be healthy again.									
Next Steps									
•									
•									
		Т	Teacher				I 1	Independent	

Т	Teacher	I	Independent
PPA	Planning, Preparation and Assessment	AL	Adult Led
s	Supply	GP	Guided Practice

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•									
•									



Т	Teacher	I	Independent
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