

## Science

Plants





## What Do Plants Need?



#### **Aim**

- I can use my observations to explain what plants need.
- I can record the results of a comparative test.

#### **Success Criteria**

- I can explain what plants need to grow well.
- I can give reasons for my answers.
- I can measure the growth of plants with a ruler.
- I can record the growth of plants by drawing or writing.



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### **Plant Growth Comparative Test**

Do you remember when we planted some seeds for our comparative test?

In a comparative test, you look at things closely to see what is the same and what is different.





# Plant Growth Comparative Test



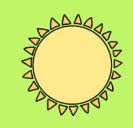
What conditions have we given our plants?

















Tell your partner how you think that each plant will have grown.

This is your **prediction**.

## **Comparative Test Results**



	sentence to describe it and write the height in cm.
The plant has had water and sunlight.	The plant has had water but no sunlight.
The plant has had sunlight but no water.	The plant has had no water and no sunlight.
The plant has had sunlight but no water.	The plant has riad no water and no suringrit.



What have we found out about what plants need to grow well?





Plants need water to grow well.

Every plant needs water to survive. All living things do!

Some plants like a lot of water, some only need a little.







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Plants need sunlight to grow well.

Seeds and bulbs can germinate and sprout under the soil without sunlight, because seeds and bulbs contain a store of food that the plant uses to begin to grow. When this is used up, the plant needs more food so it can keep getting bigger.

Plants use their leaves to absorb the sunlight and use the energy in the sunlight to make their own food.



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Did we choose the right conditions for our seeds and bulbs to make sure they grow up healthy and strong?



## **Comparing Seeds and Bulbs**



Comparing Seeds and Bulbs: Week		
	000	
Sunflower	Narcissus	
Draw your sunflower plant.	Draw your narcissus plant.	
Write a description to describe how your sunflower plant has grown so far.	Write a description to describe how your narcissus plant has grown so far	
Measure your synflower plant and fill in the Plant Growth Table	Measure your parcissus plant and fill in the Plant Growth Table	

## **Temperature**

We know that plants need light and water to grow, but what about the temperature?



### **Cress**

We are going to plant some cress.

Cress is very easy to grow and grows very fast.



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#### **Cress**



In your pairs, plant 2 trays of cress seeds. One will grow inside in a warm place, one will grow outside where it is cool.

Which one do you think will grow fastest?



#### You will need:

- A shallow tray
- Cotton wool or kitchen towel
- Water
- Cress seeds
- Cling film

- 1. Line your tray with cotton wool or kitchen towel.
- 2. Sprinkle it with water until it is damp.
- 3. Scatter your cress seeds on top.
- 4. Wrap the tray in cling film.

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