



Science

Plants

What Do Plants Need?



twinkl

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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Sunflower
Seeds

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.

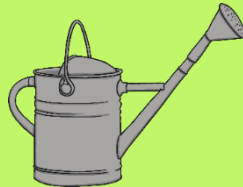
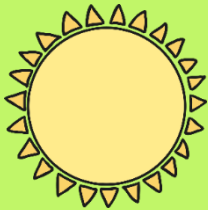
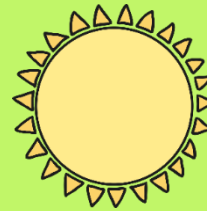
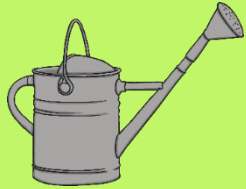


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Plant Growth Comparative Test



What conditions have we given our plants?

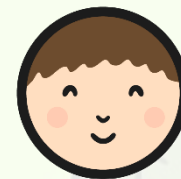


Tell your partner how you think that each plant will have grown.

This is your **prediction**.

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Comparative Test Results



Plant Growth Test Results

Draw a picture of each plant. Write a sentence to describe it and write the height in cm.

The plant has had water and sunlight.

_____ cm

The plant has had water but no sunlight.

_____ cm

The plant has had sunlight but no water.

_____ cm

The plant has had no water and no sunlight.

_____ cm

Plants need _____ and _____ to grow well.



Conclusions



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



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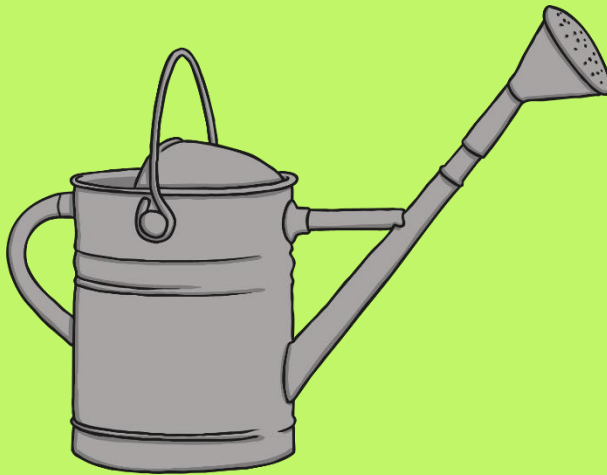
Conclusions



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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Conclusions



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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Seeds

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Conclusions



Were our predictions correct?

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

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Temperature

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

Do you think a plant will grow better in the warm or in the cold?

How can we find out?



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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**Sunflower
Seeds**