



Science

Plants

What Have You Found Out?



Aim

- I can record my observations.
- I can present the results of my investigation using scientific language.

Success Criteria

- I can describe what I have observed.
- I can record what I observe.
- I can answer my original question using my observations.
- I can think about whether my prediction was accurate.
- I can explain my results using scientific language.

What Do Plants Need?

What happens if a plant has no water?

Can a plant grow in the dark?

If a plant has no heat, will it still grow?

Or your own idea?

You have set up an investigation into what plants need to grow well.

What question were you investigating?

You have been observing your plant regularly, and now you are going to describe your observations, find the answer to your question and explain what you have found out.

Describe Your Observations



Now that the investigation is complete, you should do a final description of what you have observed.



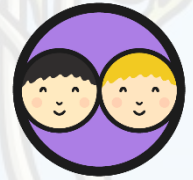
Look at your plant now and your observation records.

What has happened to your plant?

Describe your observations using words, pictures or both.

Challenge: Add a scientific diagram of your plant.
Include labels to show your key observations.

Describe Your Observations

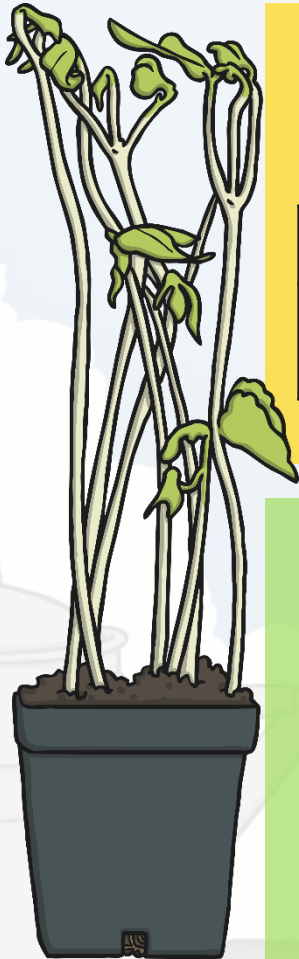


Look at this example for some ideas:

Date	02/03/2015	03/03/2015	04/03/2015	05/03/2015	06/03/2015
Observations	Nothing has happened.	It has grown by 1cm.	The leaves look yellow.	It is 1cm taller.	The stem is turning white or yellow.

Describe what you have observed:

My plant has grown 2cm taller. It has turned white and yellow.
The leaves are still small and haven't grown.



Conclusion



Think about the question you were investigating. You should be able to answer it now.

Think about what has happened to your plant. Look at your plant and your observations and use your Recording Results Activity Sheet to answer your question!

Look back at your original prediction. What did you think would happen to your plant? Tell your partner. Using your observations, can you say whether your prediction was accurate?

When scientists have completed an investigation, they make a '**conclusion**'. This is a summary of what they have found out.

What is your **conclusion**? Talk to your partner and decide.



Share Your Findings



You are going to share your answers so that everyone in the class knows what you have found out.

Swap groups and take turns to describe your observations and your answers.



Did anyone in your new group investigate the same question as you?

Did they record similar observations?

Do they have a similar answer to their question?



Scientists share ideas like this to check that their ideas are reliable.

If other scientists have very different results, they know they might need to think about their ideas again.

If other scientists have similar ideas, they can trust that their answers are probably accurate.

What Have We Found Out?



Your investigations were all about the things that plants need to grow well.

What have we found out about what plants need?



Can plants grow well without water?



Can plants grow well without light?



Can plants grow well without heat?

No they can't! They need water, light and heat in order to grow well, as well as air and room to grow.

The Good Plant Growing Guide



Imagine that a television channel has asked you to create a gardening programme called 'The Good Plant Growing Guide'.

The programme will be all about growing plants healthily.

You will need to get into character as a scientist to explain your investigation and what you have found out.

You should explain what people need to do to make sure the plants in their garden grow well.

Use 'The Good Plant Growing Guide' Planning Sheet to prepare your programme.

You should practice acting out your programme so that you can present it to the class afterwards!



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