

# Can a plant survive without leaves?



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## Which of these do you agree with? What is your evidence?

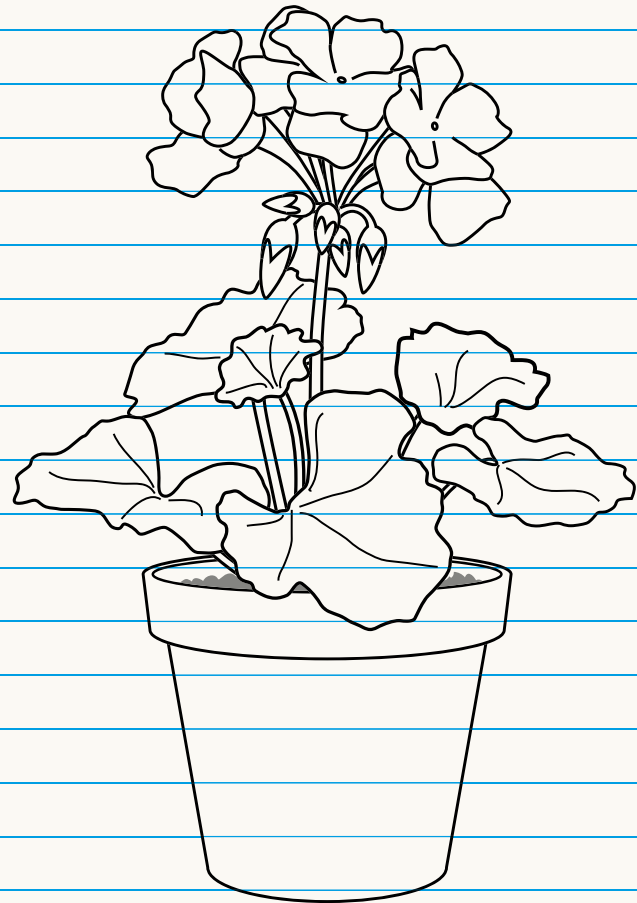
- If you remove all the leaves from a plant it will die
- Plants can grow new leaves
- A plant does not grow well if leaves are removed
- If you remove leaves from a plant it grows faster to replace the leaves
- All plants die if the leaves are removed
- A plant does not need all its leaves to survive
- If you remove some leaves from a plant it will die
- Plants with more leaves grow taller

# Can a plant survive without leaves?

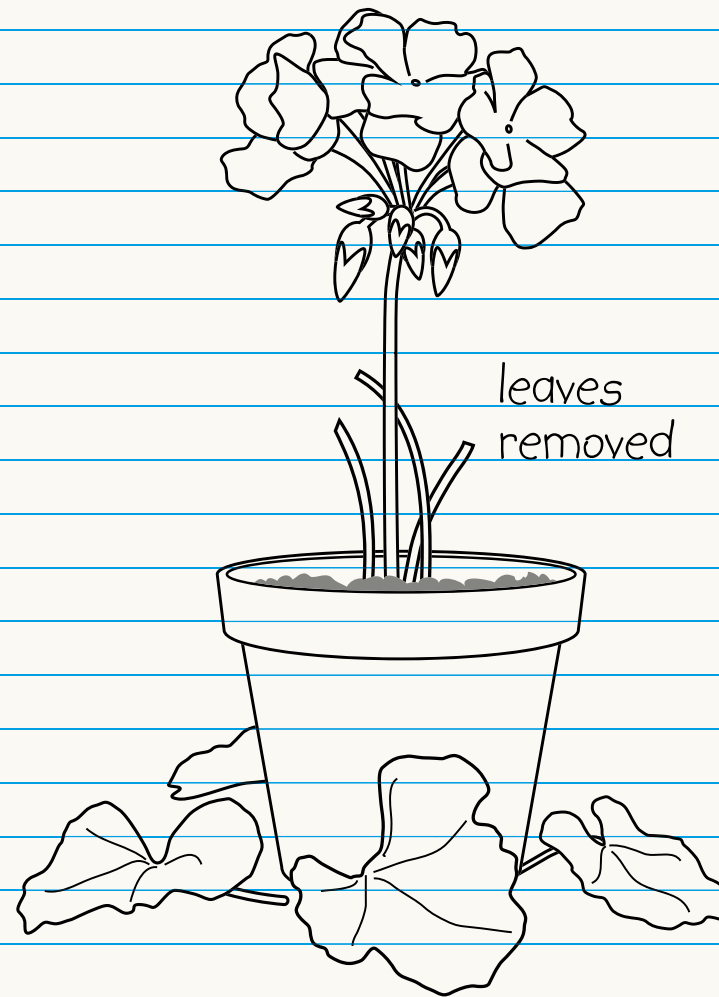


## Investigation results:

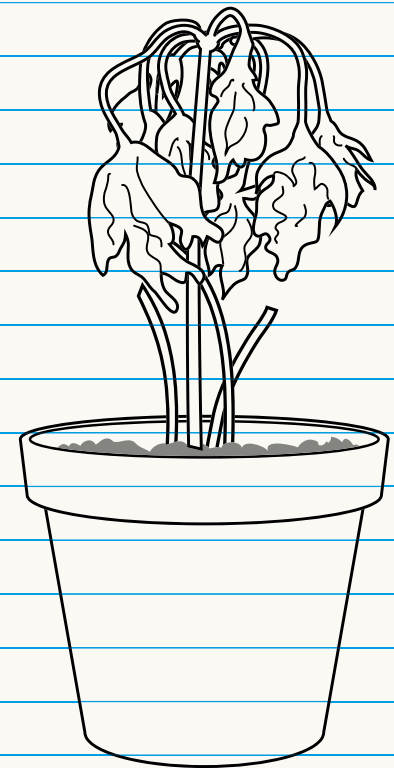
Healthy, growing, and flowering.



No new growth or flowers.



Wilting and dying.



# Challenge 3



## Conclusion 1:

The two plants look different at the end of the investigation because one had leaves and the other didn't. We recorded what happened every four days and watered them. We thought the one without leaves would grow new leaves but it didn't. It died.

The one with leaves was very green at the end of the investigation because we put it on the windowsill. Plants need sunlight because of the leaves. If the plant doesn't have any leaves it doesn't need sunlight and it dies. We found out that a plant grows bigger if it has leaves.

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## Conclusion 2:

The plant with leaves kept on growing and had new flowers. It got bigger and was healthy. The one without leaves did not grow and after a week the flowers wilted then died. After 4 weeks the whole plant looked dead.

This shows that a geranium plant cannot survive without its leaves. Plants use their leaves to make food. Without food the plant cannot grow and it dies.