

# KQ: Can I investigate how plants grow from a seed?

Prediction time!

You are going to see a time lapse video where somebody has planted some cress seeds in 4 different environments. The Environments are: on cotton wool with some water, on cotton wool with extra water, in soil with some water, and on cotton wool with some food colouring.

Before you go to the next slide, make a prediction about what you think will happen to the cress seeds.

I predict that the seeds on the \_\_\_\_\_ will

cotton wool

cotton wool and extra water

soil

cotton wool and food colouring



seeds



cress

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<https://www.youtube.com/watch?v=tOQtOulsxSU>

Website link

*Watch this video. Can you discuss what happened to the different seeds? Were your predictions correct?*

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*What do you notice?*

*Why do you think the cress has grown differently?*

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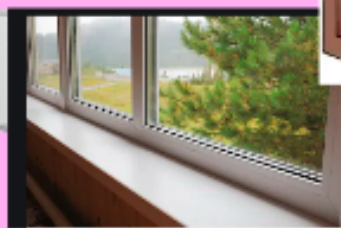


*What has stayed the same in this investigation?*

*What variables have changed?*

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**Places**



**Constant**

*(things that won't change)*



**Other variables**



*Key point!  
You will need  
to measure  
how much  
water you will  
give the seeds!  
How can you  
do this?*

*Can you plan an investigation to  
find out how different variables  
affect how seeds grow?*

*You will have 3 pots of cress seeds. What  
will you change? What will you keep the  
same?*



**You can change the PLACE or the OTHER VARIABLES**

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When you have decided on your investigation, fill out your investigation sheet.

Then, prepare your investigation!

Next week, we will find out the results from our investigation!

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What are you trying to find out?

In groups we are going to set up an investigation to find out how different variables can affect the growth of cress seeds.

What are you going to do?

I am going to investigate

What equipment will you use?

Which things will be a constant? (the things that will stay the same)

Which things will be variables? (the things that will change)

What do you predict will happen?