

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Do seeds need water to germinate?

Today we are going to be testing if seeds need water to grow by planting two pots of seeds. We will give one pot water and keep one pot dry.

You will need:  
 Seeds  
 Pots  
 Soil  
 Water

Which seeds are you using for your experiment?

How will you make it a fair test? Tick or colour the correct sentences:

Keep the pots in the same place	Give one pot light and keep the other dark
Plant the same number of seeds in each pot	Use the same amount of soil for each pot
Use different types of seeds	

Now that you have decided how you are going to make your test fair you need to prepare your seeds.  
 First half fill your pots with compost. Then put your seeds in the pots and cover them with a little bit of compost. Make sure you clearly label your pots so you remember which ones you are watering!

What do you think is going to happen?  
 Draw a picture and write down your prediction.

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Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Do seeds need light to germinate?

Today we are going to be testing if seeds need light to grow by planting two pots of seeds. We will give one pot light and keep one pot in darkness.

You will need:  
 Seeds  
 Pots  
 Soil  
 Water

Which seeds are you using for your experiment?

Where are you going to put your seeds?

How will you make it a fair test? Tick or colour the correct sentences:

Keep all the pots in the same place	Water each plant the same amount
Plant the same number of seeds in each pot	Use the same amount of soil for each pot
Use different types of seeds	

Now that you have decided how you are going to make your test fair you need to prepare your seeds.  
 First half fill your pots with compost. Then put your seeds in the pots and cover them with a little bit of compost. Make sure you clearly label your pots so you remember which one will be given light and which will be in darkness.

What do you think is going to happen?

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Do seeds need heat to germinate?

Today we are going to be testing if seeds need heat to grow by planting two pots of seeds. We will give one pot heat and keep one pot cold.

You will need:  
Seeds  
Pots  
Soil  
Water

Which seeds are you using for your experiment?

Where are you going to put your seeds?

How will you make it a fair test? Tick or colour the correct sentences:

Keep all the pots in the same place                      Water each plant the same amount

Plant the same number of seeds in each pot

Use different types of seeds                      Use the same amount of soil for each pot

How will you plant your seeds?

What do you predict is going to happen?

**Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Have a look at the results from my experiment. I was exploring which conditions seeds need to germinate. Can you help me understand my results by drawing and labelling a picture to show the best conditions for seeds to germinate.



What should I do to make sure my seeds grow?

How do you know this?

I wanted to find out what conditions seeds needed in order to germinate so I did two different experiments. Here are the results from my experiments. What do they show you?



**Do seeds need water to germinate?**

I planted 20 seeds in 2 pots of soil. I left both samples on the same windowsill. I watered pot 1 with 50ml of water each day. I then recorded how many seeds had sprouted each day. Here are my results:

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10
Pot 1 - with water	0	0	0	1	1	3	5	9	13	16
Pot 2 - without water	0	0	0	0	0	0	0	0	0	0

**Do seeds need heat to germinate?**

I planted 20 seeds in 2 pots of soil. I put one in a warm cupboard and one in a cold fridge. This way, it was a fair test as neither had light. I watered each with 50ml of water a day. I recorded how many seeds had sprouted each day. Here are my results:

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10
Pot 1 - cold fridge	0	0	0	0	0	0	0	0	0	0
Pot 2 - warm cupboard	0	0	0	0	2	4	7	9	12	15