

## Science Task:



What do plants need to grow?

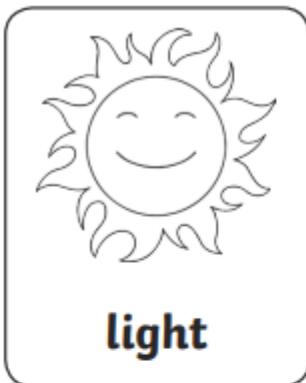
Take a look at the clips below to find out a bit more:

<https://www.bbc.co.uk/bitesize/clips/zv2qxn timer>

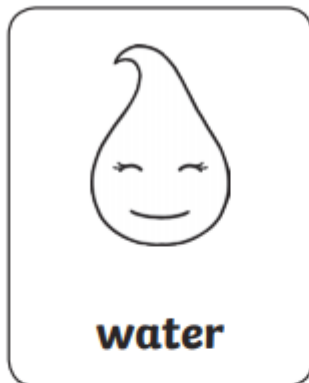
<https://www.bbc.co.uk/bitesize/clips/zctm timer>



When you have watched the clips above, copy and complete the following sentences in your book.



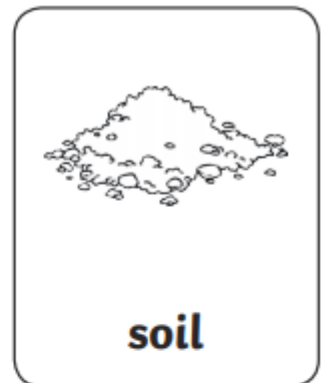
**light**



**water**



**air**



**soil**

Many plants need \_\_\_\_\_ from the sun.

Many plants need \_\_\_\_\_ or they will dry out.

Many plants need \_\_\_\_\_ to grow their roots in.  
They get the nutrients they need from the soil.

Plants need \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_  
which they use to make food.

Can you draw your own pictures in your book and label to show what plants need to grow.



If you were to plant your very own seed, what would you do to ensure it grew to be the tallest and healthiest it could be?



Do you think these plants would grow?



A seed kept in a dark place with no water.



Will this plant grow big and strong?

Yes

No

A seed kept in a dark place and watered.



Will this plant grow big and strong?

Yes

No

A seed that is given sunlight but no water.



Will this plant grow big and strong?

Yes

No

A seed given sunlight and water.



Will this plant grow big and strong?

Yes

No

### Time to put it to the test!

If you are able to get your hands on some seeds (cress or beans are good ones, but others are fine too) you could put all of your knowledge to the test and see what happens when plants don't get the right ingredients!

Take 4 pots (plastic cups are fine) and plant your seeds:

- One without soil (use cotton wool instead)
- One without light (hide in a dark cupboard)
- One without water
- One that is given all 3 of these things

Make careful observations to see what happens to each pot!

You could record your findings in your book like this:

## What we need - Equipment



water



light



soil



seeds



cups



cotton wool

This is what we will do:

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What I think will happen - Prediction

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Can you create a table to show your results? Draw a picture or write a sentence to show what happened.

My results:

Test	What I found out:
