

A vibrant garden scene featuring a central fountain with water spraying upwards. The fountain is surrounded by various plants, including purple flowers in the foreground, yellow and orange flowers to the right, and a large tree with bright yellow leaves on the left. The background shows a fence and more trees with autumn foliage. The text "Lesson 2- What do plants need to live?" is overlaid in a white box with a black border.

Lesson 2- What do plants need to live?

Plants need five things to stay alive...

Using what you already know about plants have a think about what these 5 things might be.

Write them down on a piece of paper!

Then watch this video to find out the answers:

<https://www.bbc.co.uk/bitesize/topics/zy66fg8/articles/zcmtk2p>



There are some questions for you to answer and a fun quiz at the bottom of the page.

Answers! Plants need: water, light, soil (nutrients), air and space to stay alive. But why?

If a plant is not watered enough, its stem will be fragile and have very dry leaves. It will eventually die.

If a plant does not have enough light, it will grow to be tall and flimsy as it searches for light. It will probably die.

The roots take up water and nutrients from the soil.

Plants take in carbon dioxide (CO₂) from the air and convert it into glucose (a type of sugar) to make their own type of food through the process of photosynthesis.

If the plant/ seed does not have enough space, it will not grow.

Ivy's having trouble looking after her plants.
Can you figure out where Ivy has gone wrong?
What does she need to do to keep her plants alive?

<https://www.bbc.co.uk/teach/class-clips-video/science-ks1-ks2-ivys-plant-workshop-what-do-plants-need-to-survive/zkw2gwx>



Now complete the
activity for Lesson 2
labelled plant
doctors!

Optional experiment:

If you have any plants or seeds you could try your very own experiment on what conditions effect plants growth. The following video shows you how you can complete this experiment. If you don't have any seeds or plants don't worry! You can watch this video to find out how different conditions affect the growth of a plant.

<https://www.youtube.com/watch?v=Nffg3G1SuXg>

Example experiments:

1. You could have one plant which doesn't have access to sunlight. Then you could have another plant which won't be given any water etc. Observe and record the changes and investigate how these conditions effect the growth of a plant.

2. You could also experiment by giving different plants different amounts of water and see how that affects the growth of a plant.



Key questions: What are you going to change? What are you going to keep the same? What do you predict is going to happen to the plant? What happens to the plant over time?