

1.2.21

WALT: to explore the conditions needed to grow a plant?

In this lesson we are going to learn about what plants need to grow. Then we will learn about variables in order to set up a simple experiment to test the effect of water on the growth of a plant.

For the lesson you can print out this worksheet to complete as you go along and you will also need a ruler.

Use the vocabulary in the box below to help you complete the lesson.

I have made a worksheet below for you to use in the lesson to fill in as you go along.

Click on the link below to access the lesson.

Link: <https://classroom.thenational.academy/lessons/what-conditions-could-we-change-to-investigate-the-growth-of-a-plant-cmv66t>

Vocabulary
Variable
Independent variable (the thing that you change)
Control variable (the thing you keep the same to make it a fair test)
Dependant variable (the thing that you observe or measure)
Nutrients
Record
Practical investigation (testing something/finding it out)
Sun
Water
Nutrients
Carbon dioxide
Changed
Experiment
Amount
Water
Sunlight
Soil
Temperature
Fair test

What are the 4 things that plants need to survive? List them below
1.
2.
3.
4.

Fill in the blanks in the sentences below:

A variable is something that can be _____ in a practical _____

Connect each variable to the correct definition

Variables	definition
Independent variable	The thing that you change
Control variable	The thing you observe or measure
Dependant variable	the things you have to keep the same to make sure it is a fair test

What variables could affect the growth of a plant?

- 1.
- 2.
- 3.
- 4.

Our investigation

Write down the answers to our investigation below. Select and write the correct answer from the list below:

- The amount of water the plant gets
- How the amount of water affects the growth of a plant
- Same type of plant, same size container and same sunlight.
- The growth of the plant because that depends on the amount of water

We are going to investigate:
Our dependant variable that we will measure will be:
The independent variable will be:
Our control variable will be:

Learning review

What are the four things a plant needs to grow?

- 1.
- 2.
- 3.
- 4.

What are the three types of variables?

- 1.
- 2.
- 3.

You need controlled variables in an investigation so that it is a _____ test.