

# Year 2, Spring: What do plants need to survive?

Key Scientist: Agnes Arber

Agnes Arber was a botanist which means she studied plants. She looked at flowering plants and compared their differences.



## Key Vocabulary

|            |                                                                                                             |
|------------|-------------------------------------------------------------------------------------------------------------|
| Germinate  | The growth of a seed or bulb so that a new plant can grow.                                                  |
| Life cycle | The changes that all living things go through.                                                              |
| Continuous | When a cycle carries on without stopping.                                                                   |
| Living     | Something that is alive.                                                                                    |
| Flowering  | A plant grows a flower.                                                                                     |
| Reproduce  | When a plant makes another seed to start the life cycle again.                                              |
| Survival   | Staying alive to reproduce.                                                                                 |
| Fair test  | When, in an experiment, only one factor (thing) is changed.                                                 |
| Seeds      | The part of the plant that grows into a new plant.                                                          |
| Bulbs      | A bulb allows a plant to rest underground during winter, growing back when the conditions/weather is right. |

## Key Knowledge

The main parts of a plant are: the roots, stem, leaves and flower.

Plants are living things and need water, sunlight, warmth and space to grow.

Once a seed or bulb has the right conditions to grow, it will begin to germinate.

There are 5 main stages of a plant life cycle.

A plant makes its own food to help it grow and produce.

When a flower dies, it leaves a seed behind to begin the life cycle once again.

## Working Scientifically



What does a plant need before it can germinate?



How does a seed or bulb grow over time?  
How does a plant develop over time?

## Diagrams/knowledge

### What do plants need?

Plants need things in order to grow and be healthy.

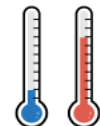
They need water.



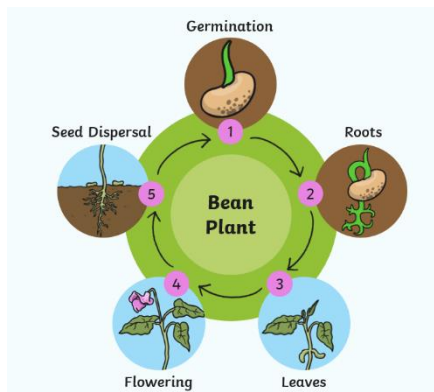
They need sunlight.



They need to be kept at a suitable temperature.



## Diagrams/knowledge



## Diagrams/knowledge

