

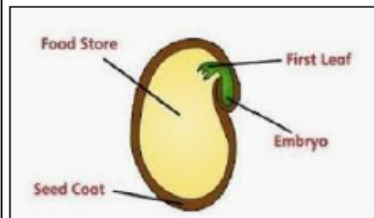
# Year 1-2 Knowledge Organiser – The Farm Shop

## Requirements for plant growth

### What should I already know?

- Label the parts of a flowering plant
- Some plants are deciduous and some are evergreen

#### Growth from Seeds/Bulbs into Mature Plants



-Germination is the name for when a plant starts to grow. A plant is germinating when its seed begins to sprout.

-Inside a seed/bulb is the baby plant (an embryo). Seeds have a tough layer on the outside to protect the plant (the seed coat).

-Seeds and bulbs do not need sunlight in order to grow. They already have their own food store inside them!

-However, they do need the right conditions to grow. Normally, they need water, air and the right temperature. This can often be found in well-watered soil!

#### Key Vocabulary

Germination	When a seed starts to grow
stem	Supports the plant
leaf	Makes food for the plant
roots	Take up water and nutrients for the plant
flower	Where the seeds are made and attracts insects.
seedling	Young plant
soil	Helps a plant to grow strong . It provides nutrients an anchor for the roots.

### Diagrams

#### What Plants Need to Grow



**Water and Nutrients**  
Like animals and humans, plants need water and nutrients to survive.

-Plants are able to get water from the soil through their roots.

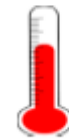
-They can also catch water on their leaves.



**Light**  
Plants need lots of sunlight to help them grow.

-Plants do not eat food. They instead use sunlight to make their own food.

-Too little light will leave plants weak.



#### Temperature

-Plants need the temperature to be just right for them to grow properly.

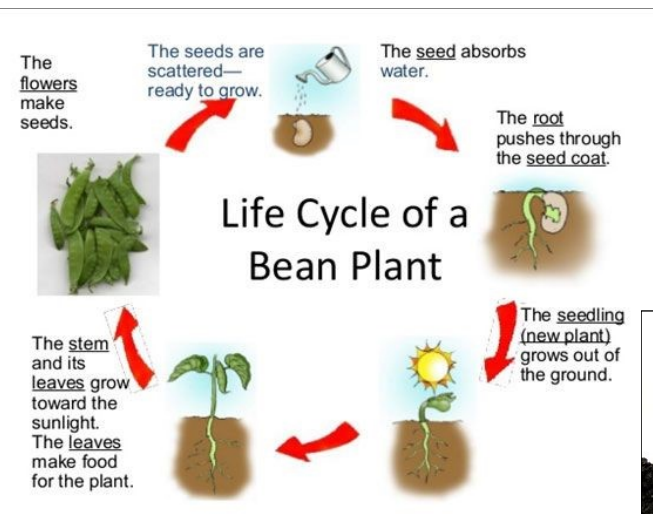
-If it is too hot, they may burn and wilt. If it is too cold, they may freeze and die. This is why there are less plants at the poles and the deserts.



#### Space and Time

-Plants need room for their roots and stems to be able to grow. Without enough room, they may not grow large enough.

-Plants also need time – it can take days, months or even years for them to grow.



Topic—Human health and nutrition; requirements for plant growth

Question 1 - What does a seed need to grow?	Start of unit	End of unit
A. Water & Warmth		
B. Light & Water		
C. Warmth & Light		

Question 4 - Where do seeds come from?	Start of unit	End of unit
A. Inside a leaf		
B. Inside a fruit		
C. Inside a flower		

Question 2—Which part of the plant do you think will grow first ?	Start of unit	End of unit
A. Root		
B. Flower		
C. Leaf		
D. Stem		

Question 5 —Do all fruits contain the same amount of seeds?	Start of unit	End of unit
Yes		
No		
Sometimes		

Question 3 - What happens after a seed falls to the ground?	Start of unit	End of unit
A. It dies		
B. It starts to grow		
C. It depends on the conditions		

Question 5— label the parts of a plant	Start of unit	End of unit
