

TMS Science Launchpad - Year 2023/2024

Year 2 - Biology : Plants

Substantive knowledge:

Plants grow from **bulbs or seeds**

They have a store of food so do not need light to grow.



Germination:

Warmth, water

NO LIGHT (underground)



Plants need **light, water** and **warmth** to grow and stay healthy.



Flowers make seeds to make more plants (reproduce)



Vocabulary:

grow, warmth, sunlight, light, shade, sun, warm, cool, water, grow, healthy, germination

Disciplinary knowledge

Identify and
classify



What are the similarities and differences between bulbs and seeds?
(observe closely and ask scientific questions)

Observation over
time



What happens to my **bean** after I have planted it?
Germination
(observing closely)

Comparative tests



Which conditions help seeds germinate faster?
(observe closely and interpret results)

Comparative tests



Do **cross seeds** grow quicker inside or outside?
(plan an enquiry)

Pattern seeking



Do bigger seeds grow into bigger plants?
(interpret results)

Observation over
time



How does my **sunflower** change each week?
(observe closely)

Research



How does a cactus survive in a desert with no water?