

Year 1 Plants - How do plants grow?

Substantive Knowledge

- A **seed** contains a miniature plant that can develop into a fully grown plant.
- A **bulb** has underground vertical shoots which already has modified **leaves**.
- Seeds and bulbs need water to grow but most do not need light (**germination**).
- Seeds and bulbs have food stores inside them to help the plant start to grow.
- To survive, plants need to get water, light and avoid being eaten.
- A seed produces **roots** to allow water to get into the plant.
- A seed produces **shoots** to produce leaves to collect the sunlight.
- A basic plant structure can include leaves, flowers (blossom), petals, fruit, roots, bulb, seed, trunk,

Disciplinary Knowledge

Observing closely, using simple equipment.	
Gathering and recording data to help in answering questions.	
Identifying and classifying.	
Using their observations and ideas to suggest answers to questions.	
Performing simple tests.	

Significant Scientists

Beatrix Potter (1872-1943)



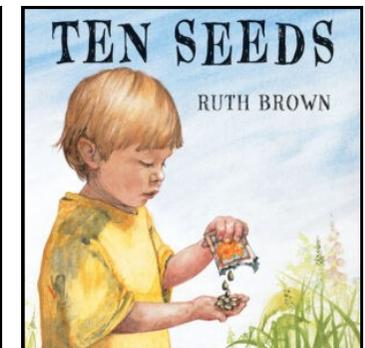
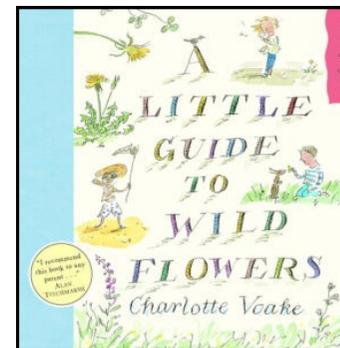
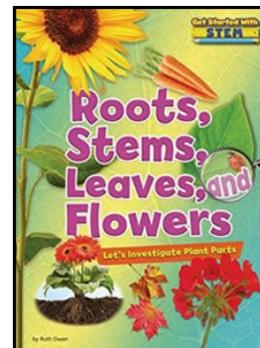
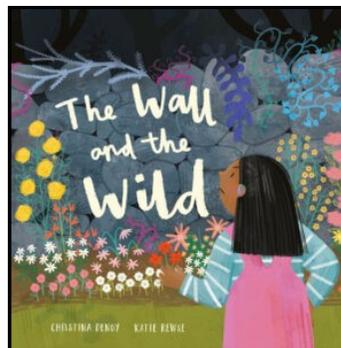
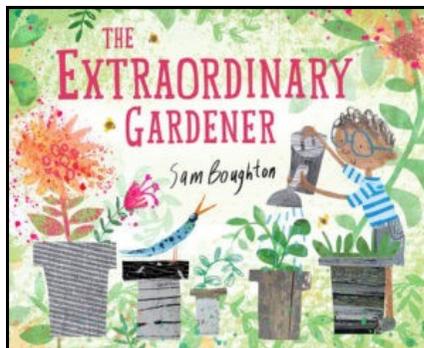
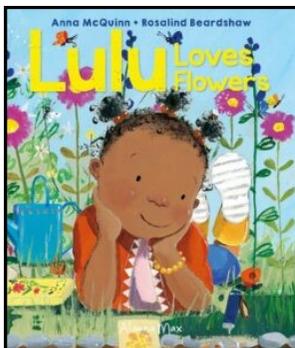
Beatrix Potter was interested in natural science however mostly focused on mycology (the study of fungus). She learnt about taxonomy (classifying), drew detailed scientific drawings and wrote papers on her

Arit Anderson (1966-)



Arit Anderson is an award-winning garden designer, television presenter and writer. She won a gold medal at RHS Hampton Court Garden Festival for a conceptual garden with climate change and renewable energy themes.

Interesting Books

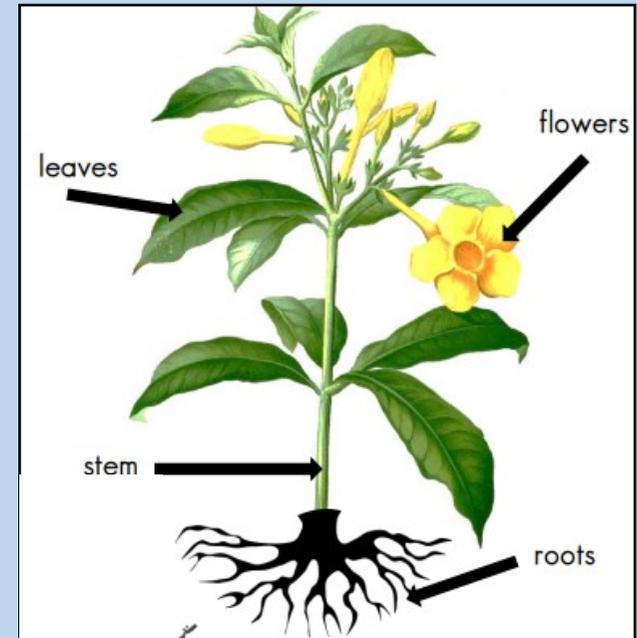


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Key Vocabulary

seed	The small, hard part of a plant from which a new plants grows.
bulb	A root shaped like an onion that grows into a flower or plant.
leaves	Usually, flat green parts that grow from a plant stem.
germination	The growth of a seed into a young plant or seedling.
roots	The part of a plant that grows downward, holds the plant in place and takes in water from the soil.
shoots	A plant that comes up above the ground when it

Plant Structure



Plants



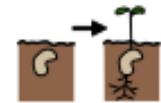
To survive plants, need to get water, light, the right temperature and to avoid being eaten.



seed



bulb



germination

A seed contains a miniature plant that can develop into a full grown plant.