

What do we know already:

- *I know that roots grow first, the stem grows after the roots, leaves grow from the stem and that a flower opens from a bud.
- *I know that a seed is produced from a flower.
- *I know that roots grow down in search of water.
- *I know that the stem grows up towards light.
- *I know that without water, light or warmth a plant will not grow.
- *I know that seeds and bulbs do not need light to grow as they have a food source inside of them.
- *I know that plants need warmth to grow, but that being too hot or too cold can lead to them becoming unhealthy.

What's next:

- *I will identify and describe the functions of different parts of flowering plants.
- *I will explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant.
- *I will investigate the way in which water is transported within a plant.
- *I can explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. In Year 5 I will learn how plants reproduce.

Vocabulary:

Tier 1	Tier 2	Tier 3
Bulb Seed Weak Healthy Temperature	Support Stability Anchor Produce Reproduce Transported Seedling Pollination Dispersal Seed case	Structure - The arrangement of different elements or parts. Reproduction - the process by which a living organism creates copies of itself. Transpiration - The process of water movement in a plant.

What are the functions of a flowering plant?

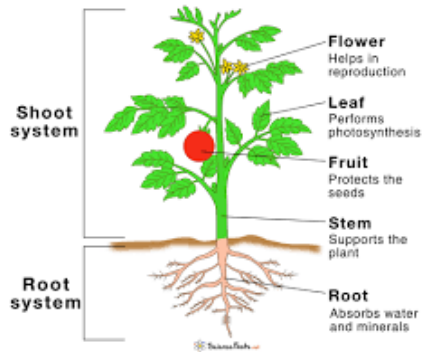
What are the requirements of plants for life and growth?

How do plants survive in hot and cold conditions?

How is water transported within plants?

What is the Life Cycle of a Flowering Plant?

Parts of a Plant



- ***Roots** anchor the plant and draw water from the soil/ stabilising material.
- ***Stem** transports water and minerals to the leaves and flowers.
- ***Leaves** enable the plant to produce food.
- ***Flowers** produce nectar and are colourful to attract insects.



Light
Air
Water
Space to grow
Nutrients

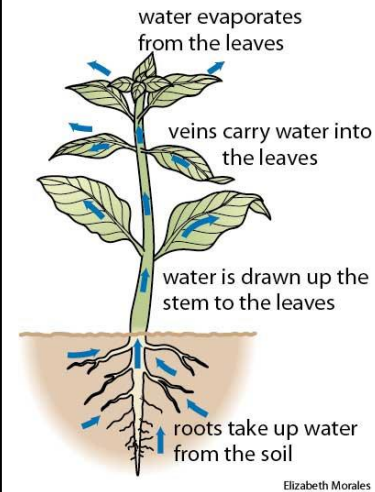


Deciduous trees survive the cold by losing their leaves so they don't freeze and harm the tree.

*The liquid in Evergreen Fir Trees are different to deciduous leaves and they cannot freeze.

*A cactus has a large stem that which can hold a lot of water. A cactus can survive 2 years without water.

*Orchids can soak water from the air rather than the soil.



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1. Sown Seed
2. Germination
3. Seedling
4. Plant
5. Flower
6. Pollination
7. Fruit/ Seed dispersal ... repeat

