

Plants LKS2 Knowledge Organiser

Sequence of Learning	
WALT How does a plant transport water?	In this lesson, we will learn about how plants transport water internally and watch this in an experiment. Celery experiment You can also set up carnations to change colour
WALT- to explain how plants have adapted to live in the rainforest	In this lesson, we will learn how plants adapt to survive in hot environments.
WALT- to explain how plants have adapted to live in the desert	In this lesson, we will learn how plants adapt to survive in cold environments.

Vocabulary	
roots	These anchor the plant into the ground and absorb water and nutrients from the soil.
stem	This holds the plant up and carries water and nutrients from the soil to the leaves. A trunk is the stem of a tree.
leaves	These make food for the plant using sunlight and carbon dioxide from the air.
flowers	These make seeds to grow into new plants. Their petals attract pollinators to the plant.
nutrients	These substances are needed by living things to grow and survive. Plants get nutrients from the soil and also make their own food in their leaves.
evaporation	When a liquid turns into a gas.

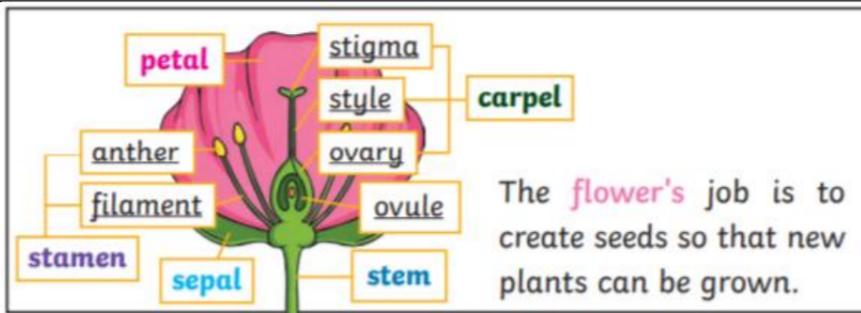
Key Vocabulary	
offspring	The young animal or plant that is produced by the reproduction of that species.
inheritance	This is when characteristics are passed on to offspring from their parents.
variations	The differences between individuals within a species.
characteristics	The distinguishing features or qualities that are specific to a species.
adaptation	An adaptation is a trait (or characteristic) changing to increase a living thing's chances of surviving and reproducing.
habitat	Refers to a specific area or place in which particular animals and plants can live.
environment	An environment contains many habitats and includes areas where there are both living and non-living things.

As Scientists we are learning to...	
Explore – the parts and functions of a plant.	Identify different adaptations
Apply – knowledge of plant needs to grow a healthy plant	Apply our knowledge of what plants need to identify the adaptations.
Investigate how plants transport water and nutrients.	Set up simple, practical enquiries .

Curriculum Drivers	Links to previous learning	Links to future learning
1 Aspiration –Plants and Living things strive to survive	How living things have adapted to their surroundings to survive.	
2 Community- Growing plants to sell to the community	Habitats Key stage 1 – local environment study Plants – growing to sell in the deep beds. Adnams project Bill Turnbull- local beekeeper visited – created bee friendly school Rivers topic looked at habitats	Keeping a pollinator friendly environment. Loss of wildflower meadows
Reflection		

Key facts

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Water Transportation

From the roots the water is taken up through thin tubes in the stem called **xylem**. These tubes act like straws and draw the water up through the stem to the leaves and flowers.

