Science

Plants

Key Question:

Do bigger seeds grow into bigger plants?

Our Knowledge Organiser

Key Learning

Year: 2 Term: Summer 2

Questions: Do bigger seeds grow into bigger plants?

Curriculum Area: Science: Plants

Background information including prior knowledge):

Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees.

Identify and describe the basic structure of a variety of common flowering plants, including trees.







Key Content:

- Observe and describe how seeds and bulbs grow into mature plants.
- Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.

Key Questions

Do bigger seeds grow into bigger plants?

Do all plants need the same conditions to grow?

Are all seeds dispersed the same way?

What is the life cycle of a dandelion?



Key Vocabulary



leaf	A flat green part of a plant or flower that grows from the stem.
flower	The part of the plant that produces seeds. Every flower is different in colour, smell, shape and size.
blossom	The blossom is the flower part of any plant or tree.
fruit	A food that grows on a plant that contains seeds inside
berry	Small fruits that contain many seeds. E.g. blueberry
seed	The part of a plant which can grow into a new plant.
trunk	The main woody stem of a tree.
stem	A part of a plant that sits above ground. It allows water and nutrients flow up from the roots to the leaves.
bark	The covering of the stems of woody plants like trees.
bud	A small growth on a plant that develops into a leaf, flower or shoot.
dispersal	To spread or scatter the seeds from the original plant or flower
bulb	A plant that begins to grow underground
mature	To grow and produce flowers





Reading Starter:

Seed dispersal

A plant produces seeds so that it can make more plants. Seed dispersal is the way in which a plant can spread its seeds. Plants rely on other things to help them spread the seeds out wide and far. Some plants need animals to help them disperse the seeds. The animals eat the seeds and cannot be easily broken down in their body. This means that the seed comes out in their poo on the ground and then it can grow in its new habitat.

Plants like the poppy plant can spread its seeds like a salt shaker. The seeds are loosely attached to the plant and so can be spread easily. The wind plays an important part in the dispersal of some seeds. The plants that do not produce edible fruit use the wind to carry the seeds off into the distance. They sycamore tree is a good example of this as its seeds are shaped so that it can fly like a helicopter on the wind.

What is seed dispersal?

How can seed dispersal be done through an animal?

How do plants that **do not** produce edible fruit disperse its seed?

Seed dispersal

How do you think these seeds are dispersed?

Would animals eat them and then poo them out?

Do they stick to animals and travel with them?

Do they look like they might float off in water?

Would they explode out of a plant?

Would they float off in the wind?



milkweed



maple



dandelion

How do you think these seeds are dispersed?

Would they look like animals might eat them?

Would they stick to animals and travel with them?

Do they look like they might float off in water?

Would they explode out of a plant?

Would they float off in the wind?



beggar-ticks



sandbur



blackberry

How do you think these seeds are dispersed?

Would they look like animals might eat them?

Would they stick to animals and travel with them?

Do they look like they might float off in water?

Would they explode out of a plant?

Would they float off in the wind?



bean



wheat



cherry

How do you think these seeds are dispersed?

Would they look like animals might eat them?

Would they stick to animals and travel with them?

Do they look like they might float off in water?

Would they explode out of a plant?

Would they float off in the wind?



lotus



coconut



bulrush

How do you think these seeds are dispersed?

Would they look like animals might eat them?

Would they stick to animals and travel with them?

Do they look like they might float off in water?

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Would they float off in the wind?



jewelweed



violet



witch hazel

Sort the pictures of different seeds based on how they disperse their seeds



How to make a helicopter seed
(like a sycamore seed)



1. Take a piece of paper like this.



2. Make three cuts as shown here:



3. Fold the paper as shown here:



4. Fold the helicopter blades on opposite sides.

