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



| | |
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| 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:

Super Seeds

Most plants begin their lives as seeds. Even giant trees grow from tiny seeds. This leaves a lot of people wanting to know how! Inside each seed is a mini plant. It is protected by a hard shell called a seed coat. Inside the seed coat, there is food for the plant to use. This mini plant can become a fully grown plant if it has the right levels of water, oxygen, light and heat. When it does, the mini seed begins to grow quickly. This is called germination.



What is the hard shell of a seed called?

Which word does the author use to describe trees in the second sentence?

Predict what might happen to the mini plant inside the seed if it did not get the things that it needs.

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# Odd one out

https://explorify.wellcome.ac.uk/en/activities/odd-one-out/types-of-leaves




1. Show the three images above and ask everyone to come up with as many similarities and differences as they can. If they get stuck, prompt them to think about:

- appearance
- what they do
- where they might be found

2. Then, everyone needs to decide which one is the odd one out and why. Encourage a reason for every answer and there is no wrong answer!

Look closely at the seeds and bulbs on the table.

Sort them into groups

How/why have you sorted them this way?

What do you think they will grow into?

Observational drawing

Use the magnifying glasses and include as much detail as possible.

Label with what you predict the seed will grow into