

Ideas Organiser: Circle of Life - Plants



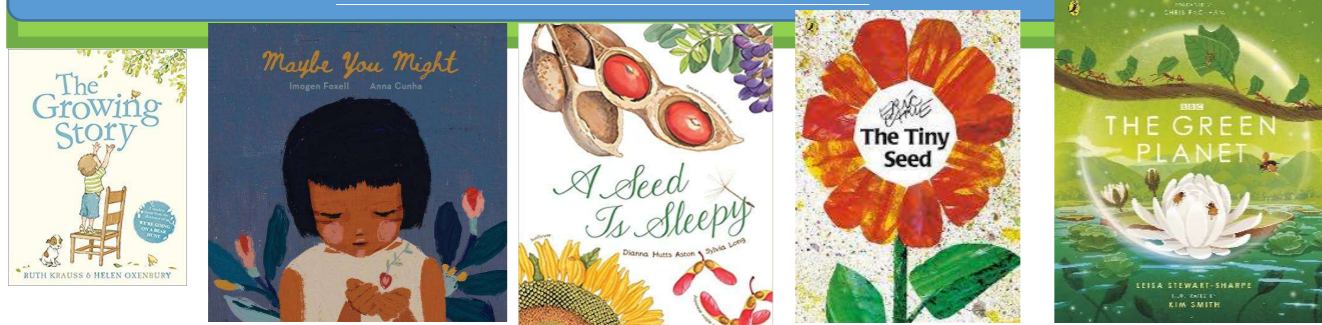
Knowledge:

- There are differences between living things, dead things and never living. Living things have all life processes, dead things had all life processes but no longer do and never living don't have life processes and never have had.
- Most living things live in a habitat which they are best suited to.
- Seeds need water, warmth and sunlight to grow healthy.
- When the conditions are right, the seed soaks up water and swells, and the tiny new plant bursts out of its shell. This is called germination.
- A shoot grows upwards from the seed or plant to find sunlight.
- Seed dispersal is when the seeds move away from the parent plant. They can drop to the ground in the plant's fruit or be moved by the wind or animals.
- All plants need light from the sun to grow well. Some plants need lots of sunlight. Some plants only need a little sunlight.
- All plants need water to grow. Without water, seeds and bulbs will not germinate.
- Temperature is how warm or cold something or somewhere is. Some plants like cooler temperatures and some like warmer temperatures.
- Plants make their own food in their leaves using sunlight.

Skills:

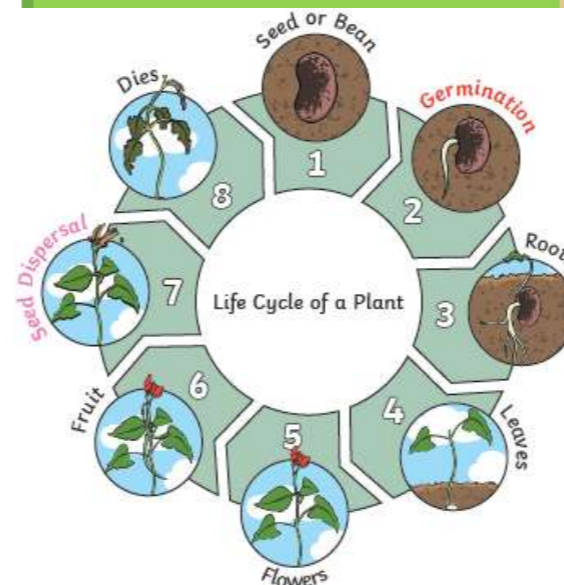
- *Exploring colour - linked to painting Van Gogh's Sunflowers
- *Working scientifically – observing and recording changes in germinating seeds.

Recommended Reads:



Key vocabulary and background knowledge:

Habitat	A natural home or environment for an animal or plant. It provides them with everything they need to live, grow and to remain healthy : shelter, sunlight, space , food and water .
Seed dispersal	When seeds move away from the parent plant. They can drop to the ground in the plant's fruit or be moved by the wind or animals.
Germination	A tiny new plant bursting out of its bean or seed shell.
Shoot	A shoot grows upwards from the seed or plant to find sunlight.
Seedling	A young plant that has grown from a seed.
Bulb	The underground bud or stem of a seed plant at resting stage.
Sunlight	Light that comes from the sun .
Shade	Darkness caused by light rays being blocked.
Nutrition	Food or nourishment.
Living	Things that are living have all life processes
Dead	Things that had been living that no longer have the life processes
Never Living	Things made from metal, plastic or rock that never had the life processes



Making Links:

Maths: using a ruler to measure the growth of sunflowers

PE: Links to exercise and healthy lifestyles

Art: Understanding primary and secondary colours - painting Van Gogh's Sunflowers

British Values

Responsibility – Knowing I have a responsibility to protect my habitat and that of others that cannot.

Mutual Respect – Know that our behaviours have an impact on our environment and that of others.



Values & attitudes we can always show in this project:



Quality Outcomes & Experiences:

- Pupils will produce a sunflower diary for their homework project, regularly recording signs of germination and measure the shoots that grow.
- Working scientifically to investigate the best conditions for seeds to germinate.
- Sunflower paintings.

The World beyond our doorstep...

Local

- Create a healthy body and lifestyle to continue throughout life.

National

- Grow our own foods and reduce our carbon footprints. Is Britain Carbon neutral?

International

- Understand the impact our behaviours have on the habitats in the the rest of the world. EG. the impact we have on the melting ice caps.
- Reduce our own plastic waste to prevent global impacts.