Sithney C.P. School Knowledge Organiser

Science. Biology: Plants

What you should already know:

You can talk about some of the things they have observed such as plants, animals, natural and found objects. You can make observations of animals and plants and explain why some things occur and talk about changes.
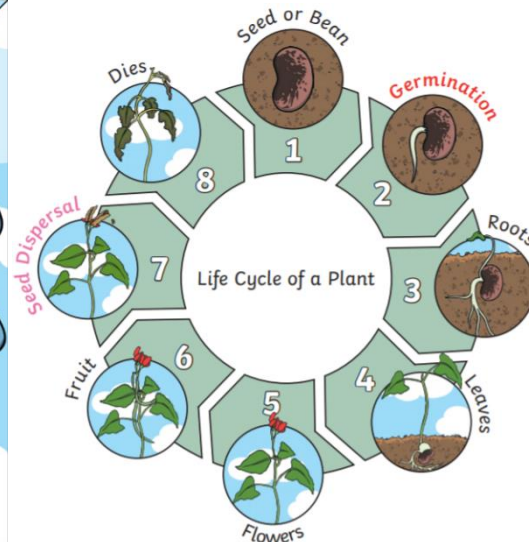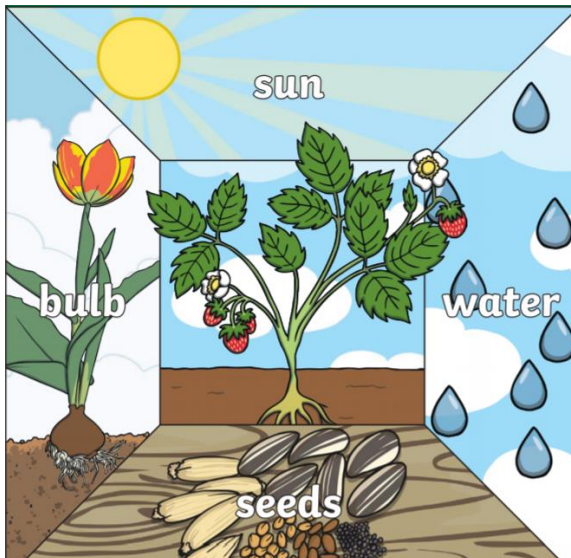
Key learning:

Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees (Y1)

Identify and describe the basic structure of a variety of common flowering plants, including roots, stem/trunk, leaves and flowers.(Y1)

Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. (Y2)

Observe and describe how seeds and bulbs grow into mature plants. (Y2)

Key Vocabulary:

Roots: Roots take in water and nutrients from the soil and keep the plant in the ground.

Stem: The **stem** holds the plant up and carries water from the roots to the **leaves** and **flowers**.

Leaves: Leaves catch sunlight to help the plant make its own food.

Flowers: Flowers attract insects and birds.

Petals: Petals are the colourful part of the **flower**.

Fruit: Fruit contains the plants seeds. Sometimes humans try to grow fruit without seeds because it's easier to eat.

Seed: Seeds grow in to new plants.

Bulb: Bulbs grow in to new plants.

Wild Plants: A **Wild Plant seed** grows where it falls. It doesn't need to be planted or cared for.

Garden Plants: Garden plants are plants that someone has chosen to grow in their garden.

Weed: **Weeds** are wild plants that grow where people don't want them.

Deciduous: A **deciduous** tree loses it's leaves every year.

Evergreen: An **evergreen** tree keeps its leaves all year round.

Germination: When the conditions are right, the **seed** soaks up **water** and swells. The tiny, new plant bursts out of its shell. This is called **germination.**

Sprout: When a new plant **sprouts,** it **grows new shoots.**

Shoot: A **shoot** grows up from the seed or plant to find **sunlight.**

Seed dispersal: Seed dispersal is when **seeds** move away from the **parent plant.** They can be moved by **wind** or **animals**.

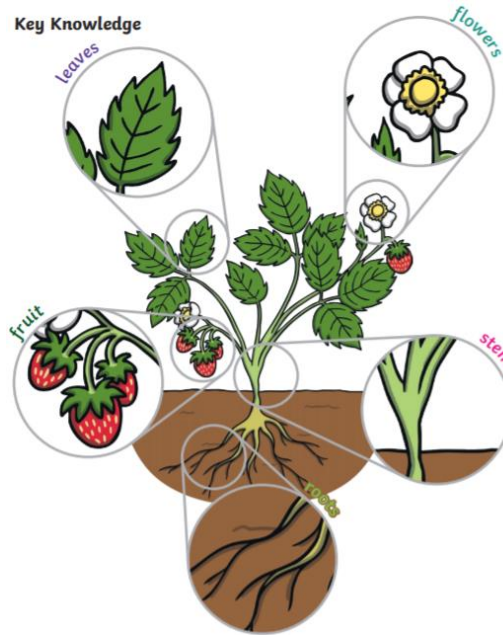**Sunlight**: All plants need **sunlight** to grow well. Some plants need lots of **sunlight**, others may only need a little.

Water: All plants need **water** to grow. Without **water**, **bulbs** and **seeds** will not **germinate**.

Temperature: Temperature is how warm something or somewhere is. Some plants like cool **temperatures** and others like warm **temperatures.**

Nutrition: Plants need **food** or **nourishment**. Plants make their own **food** in their **leaves** using **sunlight.**

Key Knowledge

leaves

flowers

fruit

stem

roots

Trees

cedar	horse chestnut	oak

Wild Plants

dandelion	daisy	buttercup	nettles
ivy	dog rose	clover	brambles

Garden Plants

fuchsia	pansy	sweet pea	sunflower
rose	lavender	iris	