

# Year 6 Knowledge Organiser –

## *Skills*

- Can give examples of flowering and non-flowering plants
- Can create classification keys for plants
- Create a branching database/dichotomous key to classify a set of plants
- Research the difference between ferns and mosses and give reasons why these do not produce flowers
- Research unusual plants e.g. strawberry plants, potatoes, spider plants and daffodils, conifers, cacti, etc

## *Knowledge*

All green plants contain the chemical chlorophyll which is also used by the plant to produce its own food.

Flowering plants make up over 80% of all of the plants on Earth. Such as buttercups, roses or sunflowers.

Conifer trees are flowerless and reproduce by forming a cone that contains seeds. A juniper tree.

A fern is a flowerless plant that reproduces by spores. Ferns are found in shady, moist forests.

A moss is a flowerless green plant that lacks true roots and reproduces using spores.

# Essential vocabulary

## Year 6 Knowledge Organiser: Where do new plants come from?

Biology

<i>flowering plants</i>	<i>Plants which use flowers, seeds and fruit to reproduce</i>
<i>non-flowering plants</i>	<i>Plants like ferns or moss which make spores instead of seeds</i>
<i>sexual reproduction</i>	<i>Offspring are produced when male gametes meet female gametes in the process of pollination (offspring are similar but not identical to either parent.)</i>
<i>pollination</i>	<i>The transfer of pollen from one flower to the stigma of another.</i>
<i>fertilisation</i>	<i>Pollen from one flower joins with the egg cells of another to produce seeds.</i>
<i>runners</i>	<i>Produced by some plants to reproduce asexually</i>
<i>bulb</i>	<i>The underground bud or stem of a seed of a plant at resting stage.</i>
<i>cuttings</i>	<i>Part of the stem of a plant which can take root in water or soil.</i>

<i>Question/Vocabulary</i>	<i>Essential Knowledge</i>
All green plants contain which chemical? What else is it used for?	All green plants contain the chemical chlorophyll which is also used by the plant to produce its own food.
Flowering plants make up over ____% of all of the plants on Earth. Can you name a few?	Flowering plants make up over 80% of all of the plants on Earth. Such as buttercups, roses or sunflowers.
Can you name examples of flowering plants with 2 or more stamen?	Buttercups, strawberry, buddleia, red campion
How would you define a conifer tree? Can you name an example?	Conifer trees are flowerless and reproduce by forming a cone that contains seeds. A juniper tree.
How would you define a fern? Where are they typically found?	A fern is a flowerless plant that reproduces by spores. Ferns are found in shady, moist forests.
How would you define a moss?	A moss is a flowerless green plant that lacks true roots and reproduces using spores.

Bridging backwards:



Year 1 Plants

Bridging forwards:



Year 3 Plants