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

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

Biology

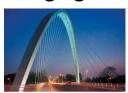
Question/Vocabulary	Essential Knowledge
All green plants contain which chemical? What else is it used for?	All green plants contain the chemical chlorophyll which is also used by the plant to produce its own food.
Flowering plants make up over% of all of the plants on Earth. Can you name a few?	Flowering 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