

What We Need to Know

Parts of a plant and their functions

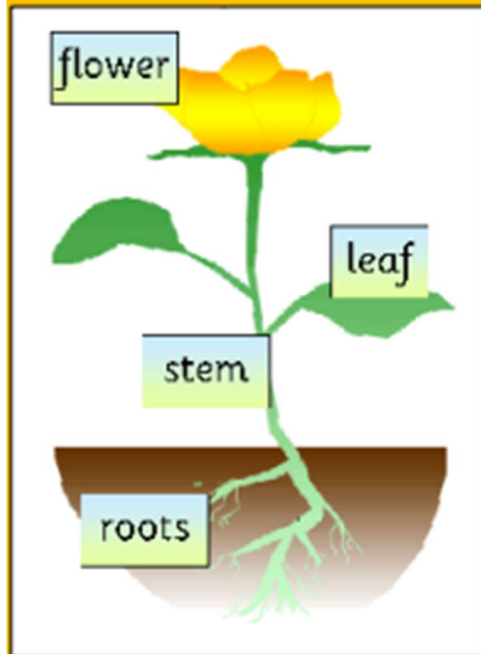
Flower or petals: These are brightly coloured to attract insects.
Leaves: They provide food and air to help the plant to grow.
Stem: It carries water and minerals to the leaves.
Roots: They take water and nutrients from the soil.

How do plants grow and survive?

Plants need water, warmth, air and sunlight for healthy growth.

Key Vocabulary and Phrases

Leaf	provides food and air to the plant
flower	brightly coloured part of the flower
stem	carries water and minerals
roots	takes water and nutrients from the soil
blossom	a mass of flowers
bud	a growth on the plant that grows into a flower, leaf or shoot
bulb	an underground bud or stem of a seed
seeds	reproduction of a flowering plant
mature	a point of growth where you can see flowers
temperature	how hot something is
light	produces food for a plant
water	feeds a plant to help it grow
nutrients	a substance that is needed for healthy growth
soil	used to plant seeds and bulbs
germination	seeds begin to sprout



Seeds and bulbs have a store of food inside of them.



Key Vocabulary and Phrases

ask questions	Use the question words What, where, when why, how
variable	Something that you are able to change or adapt for example, temperature, position
compare and contrast	Look at two or more objects and describe similarities (what is the same) and differences (what is different)
sort and group	Organise plants by their features (e.g colour, size, shape).
observe and describe changes over time	Observe closely the changes of an object (in this case seeds and the growth of plants), and describe the similarities and differences from the start time to the end time.
measure	length using centimetres, mass using grams volume using millilitres Time using second, minutes and hours
diagram	A labelled picture
record	Drawings, diagrams, photos, charts and tables, writing and numbers to show what I have found out.

How I could record my findings

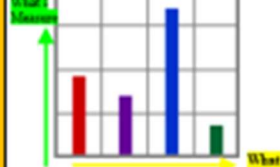
Table
For FAIR TESTING/PATTERN
SEEKING

What I Change (Height of slope)	What I measure (Distance travelled)

Use this to record your information. You can transfer it into some of the other forms as well. It could be all numerical or words

Pictures
For EXPLORING

Use this if you want to tell the story of what you did or what you observed, e.g. bread going mouldy

Bar Chart
For FAIR TESTING

Use this if you have only 1 set of numerical (continuous) data and the other is words, e.g. type of material and volume of water it can hold

What I could investigate

Do plants need light to grow?

Light

Dark

Do plants need water to grow?



Do plants need warmth to grow?



Think about how you could change the one variable.

Equipment I could use

Magnifying glasses for observing closely



A ruler to measure the height of plants



A diary and calendar to record changes over time

SUN	MON	TUE	WED	THU	FRI	SAT
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Camera, pencil and paper to record what I find out.

