

UNDERSTAND,	DESCRIBE AND EX	(PLAIN: PARTS A	ND FUNCTIONS							
To understand the	Plants	Flowering	Non-flowering	Water	Nutrients	Soil				
requirements of	Photosynthesis	Chlorophyll	Absorb	Heat	Energy	Sun				
plants for life and	Root	Stem	Leaves	Flower	Reproductive organ	Fertilisation				
growth (air, light,	Sepal Petal	Stamen Fi	lament Anther	Pistil Stigme	a Style (	Dvary Carpal				
water, nutrients	Pollen	Ovary	Ovule	Seed	Pollination	Seed Formation				
from soil, and room	Seed Dispersal By wind By animal (internal) By animal (external) By explosive action/self-propelled									
to grow) and how	Requirements of life:									
to plant	A plant must have the following things if it is to successfully grow									
to plant	in to an adult plant:									
To understand the				Light		Nutrients				
functions of different	Warmth and light:									
parts of flowering	A seed will <b>not produce</b> a plant at all if it is kept <b>too cold</b> . The seed									
plants	needs warmth to germinate and start to grow into a healthy plant.									
	Light is used as energy for making food, a process called Dioxide 7/7/ Potassum (K) Support (S)									
To understand the	Air:									
part that flowers	Plants take in <i>carbon dioxide</i> from the air for <i>making food</i>									
play in the life cycle	(photosynthesis).									
including nollination	Water and nutrients:									
seed formation and	Like humans and animals, plants need both water and nutrients									
seed dispersal	(food) to survive. Plants use water to carry moisture and nutrients  Manganese (Mn)  Molybdenum (Mo)									
	back and forth between the <i>roots and leaves</i> .									
Learning links:	Both the <b>roots and foliage</b> (leaves) need <b>room to arow</b> . Without									
Geography:	enough room, plants can become <i>stunted or too small</i> .									
Y5: Rainforest/Biomes	In order to obtain these requirements, plants have certain parts which have different functions.									
Photosynthesis/	Basic Parts 0 A									
Plant reproduction	THINKING POINT:									
Learning Balan	bud									
Learning links:	What do you think will happen if a plant was placed in a dark room or									
V3-6: Flowering plants	the soil was removed or it wasn't watered?									
and their growth										
Loorning links:	The parts of flowering plants and their functions:									
Computing :	stem									
Y3-6: time lapse	The Roots: Suck the way	ter and nutrients up out	of the <b>son</b> and into the pi	diit.	20					
	The Stem: holds up othe	e <b>r structures</b> such as the	leaves and flowers.		4	-				
	Stems also carry water and minerals up from the roots to the leaves and take food back down to									
	be stored and distributed to the plant.									
	The Leaves: The leaves of a tree (or plant) are where <b>photosynthesis</b> happens.									
	The <i>leaves souk up/absorb neat</i> and <i>energy</i> from the sun and carbon dioxide from the air to <i>make jooa</i> (photosynthesis).									
	Absorbing energy from the Sun, water from the ground, and carbon dioxide from the gir, they make glucose (sugar) to feed on so they can grow									
	into strong, healthy plants.									
	The Flower:									
	Flowers are the <i>reproductive organs</i> of the <i>flowering plant</i> .									
	The flower contains all of the parts needed to pollinate and reproduce									
	The newer contains an or the parts needed to pointate and reproduce.									
	THINKING POINT:									
	What would happen if a plant did not have any leaves/roots/a stem/flowers?									

## **EXPLORE AND INVESTIGATE:**

HYPOTHESISE	Flowering Plant Dissection:								
ENQUIRE	Dissect different flowering plants into their main parts and explore the function of these. Stick them on a sheet and discuss								
TEST	similarities/differences.								
RECORD	How will plant growth differ in different conditions?								
REPORT	Ensuring the same type of plant, soil, amount of water and location of planting, add different liquids being given to each plant to observe any								
CONCLUDE	differences in plant growth: height, colour, appearance of health etc.								
	Each day provide each plant with the same amount of liquid but of the following ingredients instead of water:								
	Water (Control)	Vinegar (Acid rain)	Aspirin solution	Orange juice	Miracle Grow Solution				
	Observe and measure the growth of the plants – is there any observable difference between them and the control?								
	Instead of changing the type of feed given to the plants, children could change different variables (soil type/plant location) and observe how this								
	impacts on plant growth. Report and conclude findings.								
KEY ASSESSMENT AND APPLICATION OPPORTUNITIES:									
EXS:			GDS:						
<ol> <li>Explain what a flowering plant needs to survive and how its different parts help it to achieve this.</li> <li>Could a plant survive without a? Why not?</li> </ol>									

