## Uplands Manor Primary School - Science Unit Organiser

Science Topic:		Plants	S Year 4				
	What? (I	(ey Vocabulary)			What?	(Key l	(nowledge)
Spelling	Definition/Sentence			Functions of the parts of a plant			
Petal	One of the coloured segments of a flower			The main parts of a plant Flowers, leaves, stem and roots			
Stamen	The male part of a flower containing pollen			Flowers		They have colour and smell to attract insec	
Carpel	The female part of a flower containing point			Leaves		They change carbon dioxide and water into food for the plant and oxygen	
Fertilisation	When pollen and an egg join together to make a seed			Stem		They hold the plant up and carry water fro the roots to the rest of the plant	
Dispersal	Spreading things over a wide area			ROOTS up water and minera		old the plant in the ground and soal er and minerals from the soil	
Pollen	A powdery yellow substance from the male part of a flower			Sometimes plants bear fruit Fruit is the part of the plant we often eat b its main job is to keep the seeds safe			
Nectar	A sweet fluid in flowers that attracts insects			How plants grow and survive			w and survive
Diagrams and Symbols						<ul><li>Light</li><li>Wat</li></ul>	
How a plant takes up water				To grow and survive, plants need:		This is s • War This is b	oon Dioxide o that they can make their own foo mth pecause if plants get too hot or too en they will die.
				How does	a plant get water?	• The roots take up water from the soil. The water travels through the stem of the plant to the leaves.	
stem carries water				The importance of flowers			
to leaves roots take up water				The job of the flower		• The	flower exists to make new plants flower contains the pollen and egg ch make seeds
	The stru	cture of a flower	41			• The	seeds grow into new plants
Stamen: Contains pollen grains Carpel: Contains the eggs Contains				Parts of the flower		<ul> <li>Carp (see</li> </ul>	nen (the <b>male</b> part of a flower) pel (the <b>female</b> part of a flower) second diagram)
				Pollination and Fertilisation How does Pollen get from one plant to another?			ant to grow a new seed, pollen o get to its carpel from another
						look ● Polle	insect goes to the first flower ing for nectar en gets stuck to it
						polle Wind:	en it goes to another flower, the en gets stuck to that flower
unit of work with one final written outcome linked to the scientific enquiry skills and approaches used.			╢	Fertilisation		anot <ul> <li>Whe</li> </ul>	en the pollen joins the egg of the ne
Investigating the different ways to speed up pollination with flowers planted at the beginning of the unit.							er a seed or many seeds are forme
	omparing the factors that effect plant growth, e.g. the amount light, amount of water etc.					The see 3 main 1)	By wind, for example like dandelig
	sing microscopes to explore parts of flowers and classifying nem into groups			How do the new seeds get to the soil to grow?		2)	seeds By animals - (they get eaten and pooed out)
Exp see	•	range of fruit and trying to grow them from				3)	By explosion - (dry seed pods split open and shoot out the seeds)