


YEAR 3/4 SCIENCE - KNOWLEDGE ORGANISER

Subject Specific Vocabulary		Interesting Book	Sticky Knowledge about plants
roots	The root is the part of a plant that typically lies below the surface of the soil.		<input type="checkbox"/> Trees are more than just part of our natural landscape. They provide shelter and food for wildlife.
stem	The stem is the plant axis that bears buds and shoots with leaves.		<input type="checkbox"/> Trees absorb carbon dioxide and produce breathable air.
nutrients	Nutrients are the food the plant wants. Most of the plant's nutrients comes from the soil.	Important facts to know by the end of the plant topic <ul style="list-style-type: none"> <input type="checkbox"/> Know the function of the different parts of the flowering plant <input type="checkbox"/> Identify and know the names of: stem; roots; leaves and flowers <input type="checkbox"/> Know what a plant needs to grow <input type="checkbox"/> Know that light, air, water, nutrients from soil are all important for plant growth <input type="checkbox"/> Find out how water is transported within a plant <input type="checkbox"/> Know the part that flowers play in the life cycle of a flowering plant <input type="checkbox"/> Know about pollination, seed formation and seed dispersal 	<input type="checkbox"/> A large tree can consume 100 gallons of water out of the ground in one day.
pollination	Pollination is the act of transferring pollen grains from the male anther of a flower to the female stigma.		<input type="checkbox"/> Trees not only do they provide shade in the summer, but serve as a windbreak in the winter, too.
seed dispersal	Seed dispersal is the movement or transport of seeds away from the parent plant.		<input type="checkbox"/> The oldest known living tree is 4,800 years old.
fertiliser	Fertilisers are used to increase the rate of a plant's growth.		<input type="checkbox"/> Trees are able to communicate and defend themselves against attacking insects.
seed formation	A seed is a small baby plant enclosed in a covering called the seed coat, usually with some stored food.		<input type="checkbox"/> Several centuries ago in Holland, tulips were more valuable than gold.
stigma	The stigma is usually sticky and receives pollen.		<input type="checkbox"/> Some plants such as orchids do not need soil to grow-they get all of their nutrients from the air.
anther	The stamen has a pollen producing structure at the end which is called the anther.		<input type="checkbox"/> Broccoli is actually a flower.
soil	The soil has water and nutrients that a plant needs to grow healthily.		