

Science					
	Autumn	Spring		Summer	
Year3	Electricity	Forces &Magnets & Springs		Moving & Growing / Helping Plants Grow	
	Term1/Term2	Term1	Term2	Term1	Term 2
	Electricity	Forces &Magnets	Springs	Moving & Growing	Helping Plants Grow
Knowledge (must know)	<ul style="list-style-type: none"> -common appliances that run on mains and on battery -hazards/dangers of using electricity -how to remain safe while using electricity -the two different types of circuit - switch helps to break the circuit -what are dependent and independent variables in a fair test 	<ul style="list-style-type: none"> -the different types of forces -that some forces need contact between 2 objects, but magnetic forces can act at a distance -that magnets can attract and repel -what magnetic poles are - how Earth acts as magnet -the uses of magnets 	<ul style="list-style-type: none"> -where springs are used in everyday life and how are they useful -that different springs do not stretch and compress the same amount 	<ul style="list-style-type: none"> -that not all animals have an internal skeleton and that the presence of this is an important feature in classifying them -that a skeleton is needed for support, protection and movement -how muscles work in pairs to allow movement and maintain posture -common bones in human body -what we need for good growth of the body -what makes a balanced diet 	<ul style="list-style-type: none"> -the parts of flower -the process of understand pollination -the difference between wind and insect pollinated flowers/the different ways seeds are dispersed -why seeds need to be dispersed -how seeds structure decides the manner in which they get dispersed
(skills) Be able to	<ul style="list-style-type: none"> -plan a fair test to find out how you can change the brightness of a bulb -plan a fair test to find out which materials can be used to make electrical wires(to sort conductors and insulators) -to use symbols to draw a simple series electrical circuit -construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers 	<ul style="list-style-type: none"> -plan a fair test to investigate the strength of magnets - investigate magnetic and non-magnetic material(which material will you use to manufacture a fridge) - investigate which metal will you use to make microwave doors -investigate properties of a magnet 	<ul style="list-style-type: none"> -plan a fair test to investigate how springs can be used to measure a force. -plan a fair test to investigate which rubber band can be best for making a catapult 	<ul style="list-style-type: none"> -investigate what happens to our skeletons from the day we are born until we become an adult -investigate skeletal growth and age/ -investigate Do all human skeletons' grow at the same rate? -investigate how lifestyle of an athlete differs from ordinary people -identify and compare skeletons of different animals 	<ul style="list-style-type: none"> -plan a fair test to investigate how fertilizer affects the growth of a seed - investigate the way in which water is transported in plants -plan a fair test to find which seed will travel the furthest
Key vocabulary	conduct hazard	property	compress elasticity	exo/ endoskeleton	dispersal nourish
Links					
Ass.					
Performance/ debate/world of work					