

Science						
	Autumn		Spring		Summer	
Year5	Life Cycles/ Keeping Healthy		Earth, Sun & Moon/ Forces		Materials & Changing states/ Changing Sounds	
	Term1	Term2	Term1	Term2	Term1	Term2
	Life Cycles	Keeping Healthy	Earth, Sun & Moon	Forces	Materials (S.L.G.)/ Changing states	Changing Sounds
Knowledge (must know)	<ul style="list-style-type: none"> -the life cycles of a mammal, an amphibian, an insect and a bird -the different types of reproduction -why different plants have modified root, stem and leaf and flower -famous scientists and their contribution towards study of plants and animals 	<ul style="list-style-type: none"> - the simple functions of the basic parts of the digestive system in humans - the journey of food through the digestive system - the simple functions of circulatory system -ill effects of smoking -how unhealthy food effects the heart 	<ul style="list-style-type: none"> -the size of the planets with respect to the sun -how the model of the solar system developed -how day and night is formed -how seasons are formed -differences between planet, natural satellite and star -the phases of moon 	<ul style="list-style-type: none"> -what a force is -the units of force -the different types of forces -which force is the weakest and why -what a simple machine is -how to show the forces acting using arrows -what are balanced and unbalanced forces -how to use a force meter to measure weight -the advantages and disadvantages of frictional forces -real life examples where friction is useful or harmful 	<ul style="list-style-type: none"> -how to materials on basis of their properties -difference between dissolving and mixing -how to recover a substance from a solution -how mixtures might be separated, including through filtering, sieving and evaporating -differences between thermal and electrical conductivity -differences between reversible and irreversible changes 	<ul style="list-style-type: none"> -that sounds vary and it can be made in a variety of ways -that sounds travel away from sources and get fainter as they do so. -that the volume of a sound can vary and that it is linked to the energy put into the vibration -the different types of sound waves -what an echo is and application of echo in real life -that sound can be amplified by using a sound box
(skills) (be able to)	<ul style="list-style-type: none"> -grow plants from different parts of plant -compare and contrast how different animals reproduce and grow -observe changes in an animal over a period of time (for example, by hatching and rearing chicks or a butterfly or a frog) 	<ul style="list-style-type: none"> -Investigate how and why bodies change with exercise -investigate and analyse how the body recovers after exercise -use understanding of the effect of exercise and rest on pulse rate to solve problems -investigate which food is unhealthy by finding out which is the most oily -investigate factors affecting lung capacity 	<ul style="list-style-type: none"> -observe the phases of moon and record the -construct simple shadow clocks and sundials, calibrated to show midday and the start and end of the school day - plot a graph in order to compare the time of day at different places on the Earth through internet links -create simple models of the solar system 	<ul style="list-style-type: none"> -plan a fair test to find out to determine which designs of parachutes are the most effective -plan a fair test to determine resistance in water by making and testing boats of different shapes -to investigate how changing variables on a paper helicopter affects the speed at which it falls through the air 	<ul style="list-style-type: none"> -plan a fair test to investigate which materials would be the most effective for wrapping ice cream to stop it melting, or for making blackout curtains? -compare materials in order to make a switch in a circuit -discuss how chemical changes have an impact on our lives 	<ul style="list-style-type: none"> -to plan a test to measure or observe how well different materials muffle sound -investigate variables that change the pitch of a stringed instrument -investigate variables that change the pitch of a wind instrument
Key V.	propagation breeding	throb palpitate	pinnacle	hefty unstable	ir/reversible	echo amplification
Links						
Ass.						
Performanc e/debate/ world of work						