

Science					
	Autumn		Spring		Summer
Year5	Materials & Changing states		Earth, Sun & Moon/ Forces		Life Cycles/ Describe Changes as Human Develop to old age
	Term1	Term2	Term1	Term2	Term1/Term2-
	Materials (Mixtures and Separation)	Materials – Changing State	Earth, Sun & Moon	Forces	Life Cycles /Describe Changes as Human Develop to old age. – (Jigsaw- Changing me)
Knowledge	<ul style="list-style-type: none"> -what are mixtures -what does dissolve means -know that some materials will dissolve in a liquid to form a solution -what processes can we use to separate mixture 	<ul style="list-style-type: none"> –Compare everyday materials based on their properties, including hardness, solubility, transparency., conductivity(electrical and thermal) and response to magnets understand what changes states of matter - understand reversible and irreversible changes -differentiate between reversible and irreversible changes 	<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 - recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect 	<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 -different ways that plants disperse seeds
(skills)	<ul style="list-style-type: none"> -investigate how does a container of saltwater change over time? -plan a fair test to investigate which types of sugar dissolves the fastest. 	<ul style="list-style-type: none"> -sort materials based on their properties, including hardness, solubility, transparency., conductivity(electrical and thermal) and response to magnets -How does temperature affect how much of solute we can dissolve? - investigate reversible and irreversible changes 	<ul style="list-style-type: none"> -observe the phases of moon and record the phases -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 how surface area of a parachute affects the time it takes to fall? -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"> -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)
Key Vocabulary	<ul style="list-style-type: none"> Matter heterogeneous mixture dissolve solution solute 	<ul style="list-style-type: none"> Reversible irreversible insulator immiscible 	<ul style="list-style-type: none"> pinnacle rotation geocentric heliocentric axis revolution planet 	<ul style="list-style-type: none"> hefty unstable Newton gravity buoyancy friction air resistance unbalanced forces simple machine 	<ul style="list-style-type: none"> propagation breeding reproduction asexual metamorphosis fertilization cell

Subject Links	<p>Computing Data and information- Flat-file databases</p> <p>Maths Statistics</p>		<p>Reading Non Fiction SPACE Literacy Newspaper Report Moon Landing Astronaut's Diary-optional Geography Identification of equator, N&S hemispheres/ Tropics and time zones</p>	<p>Computing Data and information- Flat-file databases Design and Technology CAMs Moving Toys PE Invasion games - Hockey Tennis Change of speed Maths Statistics</p>	<p>PSHSE Healthy me (Summer) Puberty</p>
Subject Builder	Questions 3,4 & 6	Questions 7, 8 & 9	Questions 4,5 & 6	Questions 2,3 & 4	Questions 3,4 & 7