

Long term planning for Science Y5/6

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Cycle A Y5	<p>Animals, inc. humans</p> <p>Describe changes as humans develop from birth to old age.</p> <p>Describe life cycles of a mammal, an amphibian, an insect and a bird.</p>	<p>Properties and changes of materials</p> <p>Compare and group together everyday materials based on evidence from fair tests.</p> <p>Understand some materials will dissolve in a liquid to form a solution and how to recover a substance from a solution.</p> <p>Use knowledge of states of matter to decide how mixtures might be separated.</p> <p>Give reasons based on fair tests for particular uses of materials.</p> <p>Demonstrate that dissolving, mixing and changes of state are reversible changes.</p> <p>Some changes are irreversible and result in new materials; changes associated with burning and the action of acid on bicarbonate of soda.</p>	<p>Earth and space</p> <p>Describe movement of: Earth relevant to the Sun; the Moon relevant to Earth.</p> <p>Describe the Earth, Moon and Sun as approximately spherical bodies.</p> <p>Earth's rotation explains day/night.</p>	<p>Living things and their habitats</p> <p>Describe life cycles of a mammal, an amphibian, an insect and a bird.</p> <p>Describe the life process of reproduction in some plants and some animals</p>	<p>Properties and changes of materials</p> <p>Compare and group together everyday materials based on evidence from fair tests.</p> <p>Understand some materials will dissolve in a liquid to form a solution and how to recover a substance from a solution.</p> <p>Use knowledge of states of matter to decide how mixtures might be separated.</p> <p>Give reasons based on fair tests for particular uses of materials.</p> <p>Demonstrate that dissolving, mixing and changes of state are reversible changes.</p> <p>Some changes are irreversible and result in new materials; changes associated with burning and the action of acid on bicarbonate of soda.</p>	<p>Forces and magnets</p> <p>Unsupported objects fall because of gravity between object and the Earth.</p> <p>Effects of drag forces-such as air resistance, water resistance and friction.</p> <p>Mechanical devices such as levers, pulleys and gears allow a smaller force to have greater effect.</p>
	Biology	Chemistry	Physics	Biology	Chemistry	Physics

Long term planning for Science Y5/6

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Cycle B Y6	<p>Living things/Evolution and inheritance</p> <p>Explain classification of living things into broad groups based on observable characteristics and similarities/differences.</p> <p>Give reasons for classifying plants and animals.</p> <p>Fossils provide information about living things that inhabited the Earth millions of years ago.</p> <p>Recognise that living things produce offspring of a similar kind, but they usually vary and are not identical to their parents.</p> <p>Identify how animals and plants are suited to, and adapt to, their environment.</p>	<p>Animals, inc. humans</p> <p>Identify and name main parts of the human circulatory system: describe functions of the heart, blood vessels and blood.</p> <p>Recognise the impact of diet, exercise, drugs and lifestyle on body function.</p> <p>How nutrients and water are transported in animals.</p>	<p>Light</p> <p>Light appears to travel in straight lines.</p> <p>Objects are seen due to giving out light or reflection.</p> <p>Light travels from light sources to our eyes sometimes via an object.</p> <p>Relate light travelling in straight lines to shadow formation.</p>	<p>Electricity</p> <p>Associate brightness of a lamp or volume of a buzzer with number and voltage of cells used.</p> <p>Compare and give reasons for variations in how components function.</p> <p>Use recognised symbols in a simple circuit diagram.</p>	<p>Evolution and inheritance</p> <p>Recognise that living things produce offspring of a similar kind, but they usually vary and are not identical to their parents.</p> <p>Identify how animals and plants are suited to, and adapt to, their environment. Adaption may lead to evolution.</p> <p>Recognise that living things have changed over time.</p>	<p>Animals, inc. humans</p> <p>Recognise the impact of diet, exercise, drugs and lifestyle on body function.</p>
		Biology	Biology	Physics	Physics	Biology