









## Ashdene Primary School – Science Curriculum

<b>Purpose of Study</b>	<p>A high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.</p>					
<b>Aims</b>	<p>The national curriculum for science aims to ensure that all pupils:</p> <ul style="list-style-type: none"> <li>• develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics</li> <li>• develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them</li> <li>• are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future</li> </ul>					
<b>Curriculum design</b>	<p>The Ashdene Science Curriculum explicitly sets out the substantive and disciplinary knowledge children will learn in each lesson to ensure there is clear interplay between the types of knowledge. To support schema development, lessons are sequenced to build on prior learning with each lesson having clearly defined knowledge to revisit. The Ashdene Science curriculum is sequenced following the topics as they are set out in the National Curriculum for KS1 and KS2. At Ashdene, we prioritise the STEM subjects. All year groups have a STEM based topic that is covered for a full term each year. These topics make explicit links between the Design and Technology, Science and Computing curriculums.</p>					
<b>Personal Development Links</b>						
	<p>RESPECT</p>	<p>SMSC</p>	<p>Rights Respecting</p>	<p>British Values</p>	<p>Jigsaw</p>	<p>Trips and Visits</p>

## Topic Overview Year 1





# Ashdene Primary School

*Excellence: everyone, everywhere, every day*

	HT1	HT2	HT3	HT4	HT5	HT6
<b>EYFS</b>	Animals including humans	Seasons	STEM – Things with Wings (transport)	STEM – Things with Wings (animals)	Discovering the UK (habitats)	Explorers (habitats)
<b>Year 1</b>	Animals including humans		Materials		Plants	
	*Seasonal change (1 lesson each half term)					
<b>Year 2</b>	Animals including humans		STEM - Materials		Living things and their habitat	Plants
<b>Year 3</b>	Animals including humans	Rocks and soil	STEM – Forces and magnets		Light	Plants
<b>Year 4</b>	Animals including humans	States of matter	STEM - Electricity		Living things and their habitat	Sound
<b>Year 5</b>	Space	Properties and changes of materials	STEM - Forces		Living things and their habitat	Animals including humans
<b>Year 6</b>	Animals including humans	Evolution and inheritance	Light	Living things and their habitat	Electricity	