

<h1>Science Year 8</h1>	<p><b>Curriculum intent:</b> The year 8 curriculum will consolidate and build on the key themes studied at year 7. Students will study aspects of Biology, Chemistry and Physics listed below which have been carefully selected to build on prior knowledge. Opportunities to revisit key concepts through retrieval practice have been built into the curriculum as well as spaced learning and consolidation exercises in order to maximise retention of key knowledge. Whenever possible knowledge and skills are acquired through the use of carefully planned practical activities with an emphasis on an investigative approach. Key skills will be developed with repeated practice. Students will develop understanding of key concepts and will be given the opportunity to demonstrate this in a range of different contexts.</p>													
<b>Rotation</b>	<b>1</b>			<b>2</b>			<b>3</b>			<b>4</b>			<b>5</b>	
<b>Interleaving</b>	Key knowledge from previously studied topics			Key knowledge from previously studied topics			Key knowledge from previously studied topics			Key knowledge from previously studied topics			Key knowledge from previously studied topics	
<b>Knowledge</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #28a745; color: white; padding: 5px; text-align: center;">HSW</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">Organisation</div> <div style="background-color: #17a2b8; color: white; padding: 5px; text-align: center;">Matter</div> </div>			<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #28a745; color: white; padding: 5px; text-align: center;">Matter</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">Ecosystems</div> <div style="background-color: #17a2b8; color: white; padding: 5px; text-align: center;">Energy resources</div> </div>			<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #28a745; color: white; padding: 5px; text-align: center;">Electricity</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">Reactions</div> <div style="background-color: #17a2b8; color: white; padding: 5px; text-align: center;">Ecology</div> </div>			<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #28a745; color: white; padding: 5px; text-align: center;">Earth science</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">Forces</div> <div style="background-color: #17a2b8; color: white; padding: 5px; text-align: center;">Science week</div> </div>			<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #28a745; color: white; padding: 5px; text-align: center;">Waves</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">Space</div> </div>	
<b>Understanding</b>	<p>Apply knowledge in a range of different contexts.</p> <p>Opportunities to include:          Investigate different hypotheses          Describe the functions of parts of plants          Investigate elements, mixtures and compounds</p>			<p>Apply knowledge in a range of different contexts.</p> <p>Opportunities to include:          Investigate different separation techniques          Explain biomass and bioaccumulation          Investigate different ways of producing electricity</p>			<p>Apply knowledge in a range of different contexts.</p> <p>Opportunities to include:          Describe differences of series and parallel circuits          Investigate neutralization reactions          Investigate the causes and effects of global warming</p>			<p>Apply knowledge in a range of different contexts.</p> <p>Opportunities to include:          Designing a rock cycle          Explain the forces on a pram</p>			<p>Apply knowledge in a range of different contexts.</p> <p>Opportunities to include:          How we communicate          What is beyond the Earth's atmosphere</p>	
<b>Skills</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #6c757d; color: white; padding: 5px; text-align: center;">Scientific Thinking</div> <div style="background-color: #6f42c1; color: white; padding: 5px; text-align: center;">Experimental Skills</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">Analysis and Evaluation</div> <div style="background-color: #dc3545; color: white; padding: 5px; text-align: center;">Scientific Vocabulary</div> </div>			<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #6c757d; color: white; padding: 5px; text-align: center;">Scientific Thinking</div> <div style="background-color: #6f42c1; color: white; padding: 5px; text-align: center;">Experimental Skills</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">Analysis and Evaluation</div> <div style="background-color: #dc3545; color: white; padding: 5px; text-align: center;">Scientific</div> </div>			<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #6c757d; color: white; padding: 5px; text-align: center;">Scientific Thinking</div> <div style="background-color: #6f42c1; color: white; padding: 5px; text-align: center;">Experimental Skills</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">Analysis and Evaluation</div> <div style="background-color: #dc3545; color: white; padding: 5px; text-align: center;">Scientific</div> </div>			<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #6c757d; color: white; padding: 5px; text-align: center;">Scientific Thinking</div> <div style="background-color: #6f42c1; color: white; padding: 5px; text-align: center;">Experimental Skills</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">Analysis and Evaluation</div> <div style="background-color: #dc3545; color: white; padding: 5px; text-align: center;">Scientific</div> </div>			<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #6c757d; color: white; padding: 5px; text-align: center;">Scientific Thinking</div> <div style="background-color: #6f42c1; color: white; padding: 5px; text-align: center;">Experimental Skills</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">Analysis and Evaluation</div> <div style="background-color: #dc3545; color: white; padding: 5px; text-align: center;">Scientific Vocabulary</div> </div>	
<b>Assessment</b>	End of rotation test			End of rotation test			End of rotation test			End of rotation test			Science skills and key knowledge assessment	