

SCIENCE			
By the end of Year 3	By the end of Year 5	By the end of Year 7	By the end of Year 9
<p>Students are able to:</p> <ul style="list-style-type: none"> <li>pose questions and make predictions</li> <li>plan activities and simple investigations, and identify elements of a fair test</li> <li>identify and collect data, information and evidence</li> <li>make judgments about the usefulness of the data, information and evidence</li> <li>use identified tools, technologies and materials</li> <li>draw conclusions and give explanations, using data, information and evidence</li> <li>communicate scientific ideas, data, information and evidence, using terminology, illustrations or representations</li> <li>follow guidelines to apply safe practices</li> <li>reflect on and identify other points of view relating to science in everyday situations</li> <li>reflect on learning to identify new understandings.</li> </ul>	<p>Students are able to:</p> <ul style="list-style-type: none"> <li>pose and refine simple questions, and make predictions to be tested</li> <li>plan activities and investigations, identifying and using elements of a fair test</li> <li>collect and organise data, information and evidence</li> <li>evaluate information and evidence to support data gathered from activities and investigations</li> <li>select and use tools, technologies and materials suited to the activities and investigations</li> <li>draw conclusions that are supported by evidence, reproducible data and established scientific concepts</li> <li>communicate scientific ideas, data and findings, using scientific terminology and formats appropriate to context and purpose</li> <li>identify and apply safe practices</li> <li>reflect on and identify different points of view and consider other people's values relating to science</li> <li>reflect on learning to identify new understandings and future applications.</li> </ul>	<p>Students are able to:</p> <ul style="list-style-type: none"> <li>identify problems and issues, and formulate testable scientific questions</li> <li>plan investigations, including identifying conditions for a fair comparison, variables to be changed and variables to be measured</li> <li>collect and analyse first- and second-hand data, information and evidence</li> <li>evaluate information and evidence and identify and analyse errors in data</li> <li>select and use scientific tools and technologies suited to the investigation</li> <li>draw conclusions that summarise and explain patterns in data and are supported by experimental evidence and scientific concepts</li> <li>communicate scientific ideas, data and evidence, using scientific terminology suited to the context and purpose</li> <li>identify, apply and justify safe practices</li> <li>reflect on different points of view and recognise and clarify people's values relating to the applications and impacts of science</li> <li>reflect on learning, apply new understandings and identify future applications.</li> </ul>	<p>Students are able to:</p> <ul style="list-style-type: none"> <li>identify problems and issues, formulate scientific questions and design investigations</li> <li>plan investigations guided by scientific concepts and design and carry out fair tests</li> <li>research and analyse data, information and evidence</li> <li>evaluate data, information and evidence to identify connections, construct arguments and link results to theory</li> <li>select and use scientific equipment and technologies to enhance the reliability and accuracy of data collected in investigations</li> <li>conduct and apply safety audits and identify and manage risks</li> <li>draw conclusions that summarise and explain patterns, and that are consistent with the data and respond to the question</li> <li>communicate scientific ideas, explanations, conclusions, decisions and data, using scientific argument and terminology, in appropriate formats</li> <li>reflect on different perspectives and evaluate the influence of people's values and culture on the applications of science</li> <li>reflect on learning, apply new understandings and justify future applications.</li> </ul>