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| 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** |

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| Students are able to:• pose questions and make predictions• plan activities and simple investigations, and identify elements of a fair test• identify and collect data, information and evidence• make judgments about the usefulness of the data, information and evidence• use identified tools, technologies and materials• draw conclusions and give explanations, using data, information and evidence• communicate scientific ideas, data, information and evidence, using terminology, illustrations or representations• follow guidelines to apply safe practices• reflect on and identify other points of view relating to science in everyday situations• reflect on learning to identify new understandings. | Students are able to:• pose and refine simple questions, and make predictions to be tested• plan activities and investigations, identifying and using elements of a fair test• collect and organise data, information and evidence• evaluate information and evidence to support data gathered from activities and investigations• select and use tools, technologies and materials suited to the activities and investigations• draw conclusions that are supported by evidence, reproducible data and established scientific concepts• communicate scientific ideas, data and findings, using scientific terminology and formats appropriate to context and purpose• identify and apply safe practices• reflect on and identify different points of view and consider other people’s values relating to science• reflect on learning to identify new understandings and future applications. | Students are able to:• identify problems and issues, and formulate testable scientific questions• plan investigations, including identifying conditions for a fair comparison, variables to be changed and variables to be measured• collect and analyse first- and second-hand data, information and evidence• evaluate information and evidence and identify and analyse errors in data• select and use scientific tools and technologies suited to the investigation• draw conclusions that summarise and explain patterns in data and are supported by experimental evidence and scientific concepts• communicate scientific ideas, data and evidence, using scientific terminology suited to the context and purpose• identify, apply and justify safe practices• reflect on different points of view and recognise and clarify people’s values relating to the applications and impacts of science• reflect on learning, apply new understandings and identify future applications. | Students are able to:• identify problems and issues, formulate scientific questions and design investigations• plan investigations guided by scientific concepts and design and carry out fair tests• research and analyse data, information and evidence• evaluate data, information and evidence to identify connections, construct arguments and link results to theory• select and use scientific equipment and technologies to enhance the reliability and accuracy of data collected in investigations• conduct and apply safety audits and identify and manage risks• draw conclusions that summarise and explain patterns, and that are consistent with the data and respond to the question• communicate scientific ideas, explanations, conclusions, decisions and data, using scientific argument and terminology, in appropriate formats• reflect on different perspectives and evaluate the influence of people’s values and culture on the applications of science• reflect on learning, apply new understandings and justify future applications. |