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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. |