

| Year 1   |                        |                          |
|--|------------------------|--------------------------|
| Term 1&2 (Computing Skills)  | Term 3&4 (Programming) | Term 5&6 (Online Safety) |
| understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions   |                        |                          |
|  |                        |                          |
| create and debug simple programs   |                        |                          |
|  |                        |                          |
| use logical reasoning to predict the behaviour of simple programs  |                        |                          |
|  |                        |                          |
| use technology purposefully to create, organise, store, manipulate and retrieve digital content  |                        |                          |
|  |                        |                          |
| recognise common uses of information technology beyond school  |                        |                          |
|  |                        |                          |
| use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. |                        |                          |
|  |                        |                          |

| Year 2   |                        |                          |
|--|------------------------|--------------------------|
| Term 1&2 (Technology Around Us)  | Term 3&4 (Programming) | Term 5&6 (Online Safety) |
| understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions   |                        |                          |
|  |                        |                          |
| create and debug simple programs   |                        |                          |
|  |                        |                          |
| use logical reasoning to predict the behaviour of simple programs  |                        |                          |
|  |                        |                          |
| use technology purposefully to create, organise, store, manipulate and retrieve digital content  |                        |                          |
|  |                        |                          |
| recognise common uses of information technology beyond school  |                        |                          |
|  |                        |                          |
| use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. |                        |                          |
|  |                        |                          |

| Year 3   |                        |                          |
|--|------------------------|--------------------------|
| Term 1&2 (The Internet)  | Term 3&4 (Programming) | Term 5&6 (Online Safety) |
| design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts   |                        |                          |
|  |                        |                          |
| use sequence, selection, and repetition in programs; work with variables and various forms of input and output   |                        |                          |
|  |                        |                          |
| use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs   |                        |                          |
|  |                        |                          |
| understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration  |                        |                          |
|  |                        |                          |
| use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content   |                        |                          |
|  |                        |                          |
| select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information |                        |                          |
|  |                        |                          |
| use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.   |                        |                          |
|  |                        |                          |

| Year 4   |                        |                          |
|--|------------------------|--------------------------|
| Term 1&2 (Animation)   | Term 3&4 (Programming) | Term 5&6 (Online Safety) |
| design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts   |                        |                          |
|  |                        |                          |
| use sequence, selection, and repetition in programs; work with variables and various forms of input and output   |                        |                          |
|  |                        |                          |
| use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs   |                        |                          |
|  |                        |                          |
| understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration  |                        |                          |
|  |                        |                          |
| use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content   |                        |                          |
|  |                        |                          |
| select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information |                        |                          |
|  |                        |                          |
| use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.   |                        |                          |
|  |                        |                          |

| Year 5   |                        |                          |
|--|------------------------|--------------------------|
| Term 1&2 (The Internet)  | Term 3&4 (Programming) | Term 5&6 (Online Safety) |
| design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts   |                        |                          |
|  |                        |                          |
| use sequence, selection, and repetition in programs; work with variables and various forms of input and output   |                        |                          |
|  |                        |                          |
| use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs   |                        |                          |
|  |                        |                          |
| understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration  |                        |                          |
|  |                        |                          |
| use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content   |                        |                          |
|  |                        |                          |
| select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information |                        |                          |
|  |                        |                          |
| use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.   |                        |                          |
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| Year 6   |                        |                          |
|--|------------------------|--------------------------|
| Term 1&2 (Spreadsheets)  | Term 3&4 (Programming) | Term 5&6 (Online Safety) |
| design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts   |                        |                          |
|  |                        |                          |
| use sequence, selection, and repetition in programs; work with variables and various forms of input and output   |                        |                          |
|  |                        |                          |
| use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs   |                        |                          |
|  |                        |                          |
| understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration  |                        |                          |
|  |                        |                          |
| use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content   |                        |                          |
|  |                        |                          |
| select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information |                        |                          |
|  |                        |                          |
| use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.   |                        |                          |
|  |                        |                          |