**Year 1**

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| 1. understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions
2. create and debug simple programs
3. use logical reasoning to predict the behaviour of simple programs
4. use technology purposefully to create, organise, store, manipulate and retrieve digital content
5. recognise common uses of information technology beyond school
6. 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
 |
| Topic 1Grouping and Sorting(2 weeks)NC Statement- 1, 2 and 3 | Topic 2Pictograms(3 lessons)NC Statement- 4 | Topic 3Lego Builders(3 weeks)NC Statement-4 | Topic 4 Animated Story Book(5 weeks)NC Statement- 4 | Topic 5Coding(5 weeks)NC Statements 1, 2 and 3 |

**Year 2**

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| 1. understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions
2. create and debug simple programs
3. use logical reasoning to predict the behaviour of simple programs
4. use technology purposefully to create, organise, store, manipulate and retrieve digital content
5. recognise common uses of information technology beyond school
6. 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
 |
| Topic 1Coding(7 weeks)NC Statement- 1, 2 and 3 | Topic 2Spreadsheets(5 weeks)NC Statement- 4 | Topic 3Effective Searching(3 weeks)NC Statement- 4 and 5 | Topic 4Making music(3 weeks)NC Statement- 4 |

**Additional KS1 Class**

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| 1. understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions
2. create and debug simple programs
3. use logical reasoning to predict the behaviour of simple programs
4. use technology purposefully to create, organise, store, manipulate and retrieve digital content
5. recognise common uses of information technology beyond school
6. 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
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| Topic 1Maze ExplorersNC Statement- 1, 2 and 3 | Topic 2QuestioningNC Statement- 4 | Topic 3Presenting IdeasNC Statement- 4 | Topic 4Creating PicturesNC Statement- 4  | Topic 5Technology Outside SchoolNC Statement- 4 and 5 |

**Year 3**

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| 1. design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
2. use sequence, selection, and repetition in programs; work with variables and various forms of input and output
3. use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
4. 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
5. use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
6. 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
7. use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact
 |
| Topic 1Coding(7weeks)NC Curriculum- 1, 2 and 3 | Topic 2Spreadsheets(5 weeks)NC Curriculum- 6 | Topic 3Email(6weeks)NC Curriculum- 4, 6 and 7 |

**Year 3/4**

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| 1. design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
2. use sequence, selection, and repetition in programs; work with variables and various forms of input and output
3. use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
4. 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
5. use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
6. 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
7. use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact
 |
| Topic 1Coding(7 weeks)NC Curriculum- 1, 2 and 3 | Topic 2Presenting(5 weeks)NC Curriculum- 4, 6 and 7 | Topic 3Branching Databases(4 weeks)NC Curriculum- 6 | Topic 4Graphing(3 weeks)NC Curriculum- 4 |

**Year 4**

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| 1. design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
2. use sequence, selection, and repetition in programs; work with variables and various forms of input and output
3. use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
4. 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
5. use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
6. 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
7. 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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| Topic 1Coding(6 weeks)NC Curriculum- 1, 2 and 3 | Topic 2Logo (4 weeks)NC Curriculum- 1, 2 and 3 | Topic 3Writing for different audiences(5 weeks)NC Curriculum- 6 | Topic 4Animation(3 weeks)NC Curriculum- 4 |

**Year 4/5**

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| 1. design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
2. use sequence, selection, and repetition in programs; work with variables and various forms of input and output
3. use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
4. 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
5. use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
6. 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
7. use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact
 |
| Topic 1Coding(6 weeks)NC Curriculum- 1, 2 and 3 | Topic 2Making Music(4 weeks)NC Curriculum- 6 | Topic 3Effective Search(3 weeks)NC Curriculum- 4, 5 and 7 | Topic 4Intro to AI( 5 weeks)NC Curriculum- 6 |

**Year 5**

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| 1. design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
2. use sequence, selection, and repetition in programs; work with variables and various forms of input and output
3. use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
4. 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
5. use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
6. 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
7. use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact
 |
| Topic 1Coding(6 weeks)NC Curriculum- 1, 2 and 3 | Topic 2Spreadsheets(6 weeks)NC Curriculum- 6 | Topic 3Word Processing (Microsoft Word)(7 weeks)NC Curriculum- 6 |

**Year 6**

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| 1. design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
2. use sequence, selection, and repetition in programs; work with variables and various forms of input and output
3. use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
4. 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
5. use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
6. 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
7. 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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| Topic 1: Coding(6 weeks)NC Curriculum- 1, 2 and 3End Points:  | Topic 2: Text Adventure(5 weeks)NC Curriculum-6End Points: | Topic 3: Quizzing(6 weeks)NC Curriculum- 6End Points: | Topic 4Networks(2 weeks)NC Curriculum- 4 |