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**Computing Curriculum Progression Overview**

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| **Year 1** | | | | | | |
|  | **Autumn One** | **Autumn Two** | **Spring One** | **Spring Two** | **Summer One** | **Summer Two** |
| **Purple Mash Unit and Programmes used** | **Unit 1.1 Online Safety and Exploring Purple Mash** Various Programmes  **Unit 1.2 Grouping and Sorting**  2DIY | **Unit 1.3 Pictograms**  **Unit 1.4 Lego Builders**  **Unit 1.5 Maze Explorers**  2Count, 2DIY,2Go | **Unit 1.5 Maze Explorers**  **Unit 1.6 Animated Story Books**  2Go, 2Create A Story | **Unit 1.6 Animated Story Books**  **Unit 1.7 Coding**  2Create A Story, 2Code | **Unit 1.7 Coding**  **Unit 1.8 Spreadsheets**  2Code, 2Calculate | **1.9 Technology outside school**  Various Programmes |
| **National Curriculum Outcomes** | **Computer Science**   * Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions   **Information Technology**   * Use technology purposefully to create, organise, store, manipulate and retrieve digital content   **Digital Literacy**   * 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 * Recognise common uses of information technology beyond school | **Computer Science**   * 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.   **Information Technology**   * Use technology purposefully to create, organise, store, manipulate and retrieve digital content | **Computer Science**   * 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. | **Computer Science**   * 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. | **Computer Science**   * 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. | **Digital Literacy**   * Recognise common uses of information technology beyond school |
| **E-Safety** | **e-safety to be covered in all terms through class assemblies and integrated into lessons** | | | | | |

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| **Year 2** | | | | | | |
|  | **Autumn One** | **Autumn Two** | **Spring One** | **Spring Two** | **Summer One** | **Summer Two** |
| **Purple Mash Unit and Programmes used** | **Unit 2.1 Coding**  2Code  **Unit 2.2 Online Safety**  Various Programmes | **Unit 2.2 Online Safety**  Various Programmes  **Unit 2.3 Spreadsheets**  2Calculate  **Unit 2.4 Questioning**  2Question, 2Investigate | **Unit 2.4 Questioning**  2Question, 2Investigate  **Unit 2.5 Effective Searching**  Browser | **Unit 2.6 Creating Pictures**  2PaintAPicture,  **Unit 2.7 Making Music**  2Sequence | **Unit 2.7 Making Music**  2Sequence  **Unit 2.8 Presenting Ideas** | **Unit 2.8 Presenting Ideas** Various Programmes |
| **National Curriculum Outcomes** | **Computer Science**   * 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 | **Information Technology**   * Use technology purposefully to create, organise, store, manipulate and retrieve digital content | **Information Technology**   * Use technology purposefully to create, organise, store, manipulate and retrieve digital content | **Information Technology**   * Use technology purposefully to create, organise, store, manipulate and retrieve digital content   **Digital Literacy**   * 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 * Recognise common uses of information technology beyond school | **Information Technology**   * Use technology purposefully to create, organise, store, manipulate and retrieve digital content | **Information Technology**   * Use technology purposefully to create, organise, store, manipulate and retrieve digital content |
| **E-Safety** | **E-safety to be covered in all terms through class assemblies and integrated into lessons** | | | | | |

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| **Year 3** | | | | | | |
|  | **Autumn One** | **Autumn Two** | **Spring One** | **Spring Two** | **Summer One** | **Summer Two** |
| **Purple Mash Unit and Programmes used** | **Unit 3.1** **Coding**  2Code | **Unit 3.2 Online Safety**  **Unit 3.3 Spreadsheets**  2Calculate  **Unit 3.4 Touch Typing**  2Type | **Unit 3.4 Touch Typing**  2Type  **Unit 3.5 Email**  2Email, 2Connect, 2DIY | **Unit 3.5 Email**  2Email, 2Connect, 2DIY  **Unit 3.6 Branching Databases**  2Question | **Unit 3.6 Branching Databases**  2Question  **Unit 3.7 Simulations**  2Simulate, 2Publish | **Unit 3.7 Simulations**  2Simulate, 2Publish  **Unit 3.8 Graphing**  2Simulate, 2Publish |
| **National Curriculum Outcomes** | **Computer Science**   * 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 | **Computer Science**   * 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   **Information Technology**   * 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   **Digital Literacy**  Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact | **Computer Science**   * 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   **Information Technology**   * 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   **Digital Literacy**   * Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact | **Computer Science**   * 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   **Information Technology**   * 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 | **Information Technology**   * 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 | **Information Technology**   * 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 |
| **E-Safety** | **E-Safety to be covered in all terms through class assemblies and integrated into lessons** | | | | | |

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| **Year 4** | | | | | | |
|  | **Autumn One** | **Autumn Two** | **Spring One** | **Spring Two** | **Summer One** | **Summer Two** |
| **Purple Mash Unit and Programmes used** | **Unit 4.1** **Coding**  2Code | **Unit 4.2 Online Safety**  **Unit 4.3 Spreadsheets**  2Calculate | **Unit 4.3 Spreadsheets**  2Calculate  **Unit 4.4 Writing for different audiences**  2Email, 2Connect, 2DIY | **Unit 4.4 Writing for different audiences**  2Email, 2Connect, 2DIY  **Unit 4.5 Logo**  Logo | **Unit 4.6 Animation**  2Animate  **Unit 4.7 Effective Search**  Browser | **Unit 4.7 Effective Search**  Browser  **Unit 4.8 Hardware Investigators** |
| **National Curriculum Outcomes** | **Computer Science**   * 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   **Information Technology**   * 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 | **Computer Science**   * 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   **Information Technology**   * 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   **Digital Literacy**   * Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact | **Information Technology**   * 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 | **Computer Science**   * 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 | **Computer Science**   * 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   **Information Technology**   * 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 | **Computer Science**   * 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   **Information Technology**   * Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content |
| **E-Safety** | **E-Safety to be covered in all terms through class assemblies and integrated into lessons** | | | | | |

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| **Year 5** | | | | | | |
|  | **Autumn One** | **Autumn Two** | **Spring One** | **Spring Two** | **Summer One** | **Summer Two** |
| **Purple Mash Unit and Programmes used** | **Unit 5.1** **Coding**  2Code | **Unit 5.2 Online Safety**  **Unit 5.3 Spreadsheets**  2Calculate | **Unit 5.3 Spreadsheets**  2Calculate  **Unit 5.4 Databases**  2Question, 2Investigate | **Unit 5.5 Game Creator**  2DIY 3D | **Unit 5.6 3D Modelling**  2Design and Make  **Unit 5.7 Concept Maps**  2Connect | **Unit 5.7 Concept Maps**  2Connect |
| **National Curriculum Outcomes** | **Computer Science**   * 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   **Digital Literacy**   * Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact | **Computer Science**   * 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   **Information Technology**   * 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 | **Information Technology**   * 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 | **Computer Science**   * Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts   **Information Technology**   * 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 | **Information Technology**   * 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 | **Information Technology**   * 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 |
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| **Year 6** | | | | | | |
|  | **Autumn One** | **Autumn Two** | **Spring One** | **Spring Two** | **Summer One** | **Summer Two** |
| **Purple Mash Unit and Programmes used** | **Unit 6.1** **Coding**  2Code | **Unit 6.2 Online Safety**  **Unit 6.3 Spreadsheets**  2Calculate | **Unit 6.4 Blogging**  2Blog | **Unit 6.5 Text Adventures**  2Code, 2Connect | **Unit 6.6 Networks**  **Unit 6.7 Quizzing**  2Quiz, 2DIY, Text Toolkit, 2Investigate | **Unit6.7 Quizzing**  2Quiz, 2DIY, Text Toolkit, 2Investigate |
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