**Computing – Overview**

*and Progression of Key Vocabulary*

**Mixed aged**

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**Cycle A**

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|  | Aut 17weeks | Aut 28weeks | Spring 16weeks | Spring 26weeks | Summer 15weeks | Summer 27weeks |
| **EYFS** | Mouse and trackpad skills Keyboard skills Drawing skills Robots Sounds Photography Technology around us Hardware Safety and privacy Quizzes |
| **Year 1-2** | Online Safety & Exploring Purple MashUnit: 1.1Number of lessons: 4Programs: Various | Technology Outside SchoolUnit: 1.9Number of lessons: 2Programs: Various | Using Search Technologies &Word ProcessingUnit: 2.5Number of lessons: 3Programs: Browser | Creating PicturesUnit: 2.6Number of lessons: 5Programs: 2PaintAPicture | Making MusicUnit: 2.7Number of lessons: 3Programs: 2Sequence | QuestioningUnit: 2.4Number of lessons: 5Programs: 2Question2Investigate |
| **Year 3-4** | Multimedia – Animations- Water CycleUnit: 4.6Number of lessons: 3Programs: 2Animate | Coding – 2Code AUnit:Number of lessons: 6Main Programs: 2Code*See table for breakdown* | Data – SpreadsheetsUnit: 3.3Number of lessons: 3Programs: 2CalculateOnline SafetyUnit: 3.2Number of lessons: 3Programs: Various | Hardware InvestigatorsUnit: 4.8Number of lessons: 2GraphingUnit: 3.8Number of lessons: 3Programs: 2Graph | Using Search Technologies Unit: 4.7Number of lessons: 3Programs: BrowserTouch TypingUnit: 3.4Programs: 2Type | EmailsUnit: 3.5Number of lessons: 6Programs: 2Email, 2Connect, 2DIY |
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| **Year 5-6** | Word ProcessingUnit: 5.8Number of lessons: 8Programs: MS Word, Google Docs | Data – DatabasesUnit: 5.4Number of lessons: 4Programs: 2Question, 2Investigate | Game CreatorUnit: 5.5Number of lessons: 5Programs: 2DIY3D | Coding – 2Code AUnit:Number of lessons: 6*See table for breakdown* | 3D ModellingUnit: 5.6Number of lessons: 4Programs: 2Design and Make | BloggingUnit: 6.4Number of lessons: 4Programs: 2BlogOnline SafetyUnit: 5.2Number of lessons: 3Programs: Various |

**Cycle B**

Questions that need answering:

All year mixed classes should have an element of online safety in it? None in 3/4 5/6

Safety internet Day is in February 25 – could we all have online safety at the same time??? Spring 1???

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| **EYFS** |  |  |  |  |  |  |
| **Year 1-2** | Online Safety &Exploring Purple MashUnit: 1.1Number of lessons: 4 | Coding – 2CodeUnit:Number of lessons: 6*See table for breakdown* | Presenting Ideas&Word ProcessingUnit:Number of lessons: | Animated Story BooksUnit: 1.6Number of lessons: 5Programs: 2Create A Story | Coding –Maize ExplorersUnit: 1.5Number of lessons: 3Programs: 2Go | Data -SpreadsheetsUnit: 2.3Number of lessons: 4Programs: 2Calculate |
| **Year 3-4** | Using Search Technologies Unit: 4.7Number of lessons: 3Word ProcessingUnit:Number of lessons:  | SimulationsUnit: 3.7Number of lessons: 3Programs: 2Simulate, 2Publish | Online SafetyUnit: 4.2Number of lessons: 4Programs: Various | Coding - 2Code BUnit:Number of lessons: 6Main Programs: 2Code*See table for breakdown* | Multimedia – Making Music Unit: 4.9Number of lessons: 4Program: Busy BeatsBranching DatabasesUnit: 3.6Number of lessons: 4Programs: 2Question | CodingUnit:Number of lessons: 6Programs: 2Code*See table for breakdown* |
| **Year 5-6** | Online SafetyUnit: 6.2Number of lessons: 2Programs: Various | Text AdventuresUnit: 6.5Number of lessons: 5Programs: 2Code, 2Connect | QuizzingUnit: 6.7Number of lessons: 6Programs: 2Quiz, 2DIY, Text Toolkit, 2Investigate | Word ProcessingUnit: 5.8Number of lessons: 8Programs: Word or Google Docs | Spreadsheets Unit: 6.3Number of lessons: 5Programs: 2Calculate | Coding – 2Code BUnit:Number of lessons: |

**Key Vocabulary:**

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|  | **EYFS** | **Y1** | **Y2** | **Y3** | **Y4** | **Y5** | **Y6** |
| **Computer science** Pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming. Problem solving Programming Logical thinking | On Off Switch Backwards Forward Instruction Sound Moving | Action Algorithm Arrow Background input Challenge Code Criteria Debug Direction event Left turn object output Program Rewind Right turn run Sort sound Undo when clicked | button Collision detected Design mode Key pressed nesting predict sequence test text timer execute properties scale scene When swiped | alert Blocks of commands develop Flowchart plan Procedure Repeat Values | Abbreviations: RT, LT, BK, FD Code block Co-ordinates If/else Logo Motherboard Number variable Objects Prompt Prompt for input Repeat until Selection types Variable Variable value | 2D 3D Abstraction Decomposition Function Interactive Modelling Perspective Physical system Playability Score Screenshot Simplify/simplified Stimula | Called Developer Get input Launch command Router User input LAN local area WAN wide area |
|  | **EYFS** | **Y1** | **Y2** | **Y3** | **Y4** | **Y5** | **Y6** |
| **Information technology**Pupils are equipped to use information technology to create programs, systems and a range of content. Creating content Searching | Buttons Collect Command Computer Count Equipment Keyboard Keys Monitor Mouse Movement Organise Phone Camera Remote Set of photos Type | Arrow keys Backspace key cursor cell tool cells clipart Collate Columns Count tool Data Delete key Image toolbox Lock tool Move Pictogram Rows Speak tool spreadsheet | Animated Avatar Binary tree Copy and paste Database Equal tool Lock tool Presentation Question Soundtrack Space bar key Volume | Advance mod animation audio Bar chat Block graph Branching database Charts design templates Field font Graphing line graph media Question slide slideshow Spin tool Stimulation Symbols = < > text box transition | Average Background Bold charts Flipbook formula Formula wizard Frame Italic Play Random tool Stop motion Timer Underline | Document Find Formatting Merge cells Record Sort, group and arrange Statistics and reports Table Text wrapping Word processing | Blog post Calculate Cell reference Count (how many tool) Icon Range Row Sum style Workbook |
|  | **EYFS** | **Y1** | **Y2** | **Y3** | **Y4** | **Y5** | **Y6** |
| **Digital literacy** Pupils become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world. E-Safety Using IT beyond school | Choices Create Internet information Share Technology Website | Animation Avatar Display board E-book File Font Log in username logout My Work Notification Password Save Sound effect tools Topics | attachment Digital footprint Display board email Internet browser Network Online safety Save Search Search engine Searching sharing Template Wireless WWW | Address book Attachment Blog Cc Communication Compose Concept map Email Formatting PEGI rating Save to draft Send Spoof website Webpage Website | Computer virus Cookies Copyright Identify theft Malware Phishing Plagiarism spam | bibliography Citations Encryption Reference Reputable Shared image Smart rules | Spoof website |