

## Computing Overview

| Year Group | Block 1<br>Autumn 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Block 2<br>Spring 2                                                                                                                                                                                                                                                                                                                                                                                        |
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| Reception  | n/a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Laptops (Summer term)</b><br>Allowing opportunity for children to become more familiar with laptops – using trackpads, keyboards etc.                                                                                                                                                                                                                                                                   |
| 1          | <b>Creating Media (Tilney - Spring 2)</b><br>Digital Painting (2 weeks)<br>Laptops<br><i>paint program, tool, paintbrush, erase, fill, undo, primary colours, shape tools, line tool, shape tool, brush style, brush size, pictures, painting, computers, like, prefer, dislike</i><br><br>Digital Writing (3 weeks)<br>Laptops<br><i>Word processor, keyboard, keys, letters, type, numbers, space, backspace, text cursor, capital letters, toolbar, bold, italic, underline, mouse, select, font, undo, redo, font, format, compare, typing, writing</i> | <b>Programming (Tilney - Autumn 2)</b><br>Moving a robot<br>Ipads<br><i>Forwards, backwards, turn, clear, go, commands, instructions, directions, left, right, plan, algorithm, program, route</i>                                                                                                                                                                                                         |
| 2          | <b>Programming</b><br>Programming Quizzes<br>Ipads<br><i>Sequence, command, program, run, start, outcome, predict, blocks, sprite, algorithm, design, sequence, predict, actions, project, modify, change, build, match, compare, debug, features, evaluate</i>                                                                                                                                                                                                                                                                                             | <b>Data and Information</b><br>Pictograms<br>Laptops<br>Year 2 teachers to teach data handling in maths prior to or alongside this unit<br><i>More than, less than, most, least, organise, data, object, tally chart, votes, total Pictogram, enter, data, tally chart, compare, explain, most, least, more common, least common, attribute, group, same, different, object, conclusion, block diagram</i> |
| 3          | <b>Creating Media</b><br>Desktop Publishing – Microsoft Publisher<br>Laptops<br><i>Text, images, advantages, disadvantages, communication, font</i>                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Programming</b><br>Sequencing Sounds<br>Laptops<br><i>Sequencing Sounds, Scratch, programming, blocks, commands, code, sprite, costume, stage, backdrop, motion</i>                                                                                                                                                                                                                                     |

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|   | <i>disadvantages, communicate, font,</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <i>sprite, costume, stage, backdrop, motion,</i>                                                                                                                                                                                                                 |
|   | <i>font style, communicate, template, landscape, portrait, orientation, placeholder, template, layout, content desktop publishing, copy, paste, purpose, benefits</i>                                                                                                                                                                                                                                                                                                                                | <i>turn, point in direction, go to, glide, sequence, event, task, design, run the code, order, note, chord, algorithm, bug, debug</i>                                                                                                                            |
| 4 | <b>Creating Media</b><br>Audio Production<br>Ipads<br><i>Audio, microphone, speaker, headphones, input device, output device, sound, podcast, edit, trim, align, layer, import, record, playback, edit, selection, load, save, export, MP3, editing, evaluate, feedback</i>                                                                                                                                                                                                                          | <b>Programming</b><br>Repetition in Shapes<br>Laptops<br><i>program, Turtle, Commands, Code snippet, algorithm, design, debug, pattern, repeat, repetition, count-controlled loop, algorithm, value, trace, value, decompose, procedure</i>                      |
| 5 | <b>Computing Systems and Networks</b><br>The Internet (yr 4 unit) (1 week brief overview)<br><i>Internet, network, router, network security</i><br><i>Network switch, server, wireless access point (WAP), router, website, web page, web address, web browser</i><br><br><b>Data and Information</b><br>Flat-file Databases<br>Laptops<br><i>Database, data, information, record, field, sort, order, group, search, value, search, criteria, graph, chart, axis, compare, filter, presentation</i> | <b>Programming</b><br>Selection in Quizzes<br>Laptops<br><i>Selection, condition, true, false, count-controlled loop, outcomes, conditional statement, algorithm, program, debug, question, answer, Task, design, input, Implement, design, test, run, setup</i> |
| 6 | <b>Computing Systems and Networks</b><br>Systems and Searching (yr 5 unit) (1 week brief overview)<br><i>System, connection, digital, input, process, output, search, search engine, refine</i><br><i>Index, crawler, bot, ordering, ranking, links, algorithm, web</i>                                                                                                                                                                                                                              | <b>Programming B</b><br>Sensing Movement (With Microbits)<br>Laptops<br><i>Variable, change, name, value, set, design, event, algorithm, code, task, artwork, program, project, code, test, debug</i><br><i>Improve, evaluate, share</i>                         |

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|  | <i>ranking, links, algorithm, web crawler, content creator, selection</i><br><br><b>Data and Information</b> | <i>improve, evaluate, share</i> |
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|  | <b>Introduction to Spreadsheets</b><br><b>Laptops</b><br><i>data, collecting, table, structure, spreadsheet, cell, cell reference, data item, format, formula, calculation, input, output, calculate, operation, formula, range, duplicate, sigma propose, question, set, organised, chart, evaluate, results, comparison, questions, software, tools</i> |  |
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*Each lesson to begin with E-safety activity 5-10 minutes – see E- Safety objectives sheet*

