

# Berrybrook Primary School Long Term

## Computing Curriculum 2021-22

| Year        | Autumn 1   | Autumn 2   | Spring 1   | Spring 2                                    | Summer 1  | Summer 2   |
|-------------|--|--|--|---|---|--|
| Early Years | See Early Years long term plans  |  |  |   |   |  |
| Year 1      | <p style="color: red; text-align: center;"><b>E-Safety -Surfing Superstars</b></p> Unit 1.1 Online Safety (4 weeks) NC 6<br>Unit 1.2 Grouping and Sorting (2 weeks) NC 4 | Unit 1.3 Pictograms (3 weeks) NC 4<br>Unit 1.4. Lego Builders (4 weeks) NC 1   | Unit 1.5 Maze Explorers(3 weeks) NC 1<br>Unit 1.6 Animated Story Books (5 weeks) NC 2<br>Unit 1.7 Coding (6 weeks) NC 1<br>Tuesday 11 <sup>th</sup> Feb Safer Internet Day- Surfing Superstars | Unit 1.8 Spreadsheets (3 weeks) NC 4        | <p style="color: red; text-align: center;"><b>E-Safety Recap Surfing Superstars</b></p> Unit 1.9 Technology Outside School (2 weeks) NC 5 | <p style="color: red; text-align: center;"><b>E-Safety -Surfing Superstars</b></p> Unit 1.1 Online Safety (4 weeks) NC 6<br>Unit 1.2 Grouping and Sorting (2 weeks) NC 4 |
| Year 2      | <p style="color: red; text-align: center;"><b>E-Safety-Surfing Superstars</b></p> Unit 2.2 Online Safety (2 weeks) NC 6<br>Unit 2.1 Coding (5 weeks) NC 1,2,3,4,5        | Unit 2.3 Spreadsheets (4weeks MC 4)<br>Unit 2.4 Questioning (3 weeks) NC 4     | Unit 2.4 Questioning (2 weeks) NC 4<br>Unit 2.5 Effective Searching (3 weeks) NC 4, 5<br>Tuesday 11 <sup>th</sup> Feb Safer Internet Day- Surfing Superstars                                   | Unit 2.6 Creating Pictures (5 weeks) NC 4   | Unit 2.7 Making Music (3 weeks) NC 4  | <p style="color: red; text-align: center;"><b>E-Safety Recap Surfing Superstars</b></p> 2.8 Presenting Ideas (3 weeks) NC 4  |
| Year 3      | <p style="color: red; text-align: center;"><b>E-Safety-Surfing Superstars</b></p> Unit 3.2 Online Safety (2 weeks) NC 5, 7   | Unit 3.3 Spreadsheets (3 weeks) NC 6<br>Unit 3.4 Touch Typing (4 weeks) NC 5,6 | Unit 3.5 Email (6 weeks) NC 4,5,6<br>Tuesday 11 <sup>th</sup> Feb Safer Internet Day- Surfing Superstars   | Unit 3.6 Branching Databases (4 weeks) NC 5 | Unit 3.7 Simulations (3 weeks) NC 5,6   | <p style="color: red; text-align: center;"><b>E-Safety Recap Surfing Superstars</b></p> Unit 3.8 Graphing (3 weeks) NC 6   |

|               |   |   |  |   |  |  |
|---------------|---|---|--|---|--|--|
|               | Unit 3.1 Coding<br>(6 weeks) NC 1,2,3   |   |  |   |  |  |
| <b>Year 4</b> | <b>E-Safety-Surfing Superstars</b><br>Unit 4.2 Online Safety<br>(2 weeks) NC 4, 7<br>Unit 4.1 Coding<br>(6 weeks) NC 1,2,3,6  | Unit 4.3 Spreadsheets<br>(6 weeks) NC 6 | Unit 4.4 Writing for different audiences<br>(5 weeks)NC 6,7<br><b>Tuesday 11<sup>th</sup> Feb Safer Internet Day- Surfing Superstars</b> | Unit 4.5 Logo<br>(4 weeks) NC 1,2,3                           | Unit 4.6 Animation<br>(3weeks) 4.6<br>Unit 4.7 Effective searching (3 weeks)<br>NC 4,5 | <b>E-Safety Recap Surfing Superstars</b><br>Unit 4.8 Hardware Investigators<br>(2 weeks)NC 4 |
| <b>Year 5</b> | <b>E-Safety-Surfing Superstars</b><br>Unit 5.2 Online Safety<br>(2 weeks) NC 4,7<br>Unit 5.1 Coding<br>(6 weeks) NC 1,2,3,6   | Unit 5.3 Spreadsheets<br>(6 weeks) NC 6 | Unit 5.4 Databases<br>(4 weeks)NC 5,6<br><b>Tuesday 11<sup>th</sup> Feb Safer Internet Day- Surfing Superstars</b>                       | Unit 5.5 Game Creator<br>(5 weeks) NC 1,6,7                   | Unit 5.6 3D Modelling<br>(4 weeks) NC 6  | <b>E-Safety Recap Surfing Superstars</b><br>Unit 5.7 Concept Maps<br>(4 weeks) NC 6          |
| <b>Year 6</b> | <b>E-Safety-Surfing Superstars</b><br>Unit 6.2 Online Safety<br>(3 weeks) NC 4,5,7<br>Unit 6.1 Coding<br>(6 weeks) NC 1,2,3,5 | Unit 6.3 Spreadsheets<br>(5 weeks) NC 6 | Unit 6.4 Blogging<br>(5 weeks) NC 4,6,7<br><b>Tuesday 11<sup>th</sup> Feb Safer Internet Day- Surfing Superstars</b>                     | Unit 6.5 Text Adventure (Make a Game)<br>(5 weeks) NC 1,2,3,6 | Unit 6.6 Networks<br>(3 weeks) NC 4,7  | <b>E-Safety Recap Surfing Superstars</b><br>Unit 6.7 Quizzing<br>(6 weeks) NC 6              |

### **Key Stage One National Curriculum**

NC1. Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions

NC2. Create and debug simple programs

NC3. Use logical reasoning to predict the behaviour of simple programs

NC4. Use technology purposefully to create, organise, store, manipulate and retrieve digital content

NC5. Recognise common uses of information technology beyond school

NC6. 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.

### **Key Stage Two National Curriculum**

NC1. Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts

NC2. Use sequence, selection, and repetition in programs; work with variables and various forms of input and output

NC3. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs

NC4. 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

NC5. Search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content

NC6. 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

NC7. Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

### **E-Safety – Useful Links**

- Education City - <https://ec1.educationcity.com/search/results/#q=esafety>
- Purple Mash - <https://www.purplemash.com/#tab/pm-home/computing>
- Common Sense Media - <https://www.commonsensemedia.org/social-media>
- Net Aware - <https://www.net-aware.org.uk/>
- Child Net – School Pack - <http://www.childnet.com/resources/school-pack-for-online-safety-awareness>
- Internet Matters – Social Media - <https://www.internetmatters.org/advice/social-media/>
- Safer Internet Day - <https://www.saferinternet.org.uk/advice-centre/parents-and-carers/resources-parents>
- Internet Matters - <https://www.internetmatters.org/wp-content/uploads/2015/12/Official-UK-social-media-guidance-UKCCIS.pdf>

- NSPCC - <https://www.nspcc.org.uk/preventing-abuse/keeping-children-safe/online-safety/>
- Safety Net Kids - <http://www.safetynetkids.org.uk/personal-safety/staying-safe-online/>
- Kid Smart - <http://www.kidsmart.org.uk/>
- Child Net - <http://www.childnet.com/>
- Get Safe Online - <https://www.getsafeonline.org/safeguarding-children/>
- GOV.uk - <https://www.gov.uk/government/groups/uk-council-for-child-internet-safety-ukccis>
- Child Internet Safety - <http://www.childinternetsafety.co.uk/>
- Think U Know - <https://www.thinkuknow.co.uk/>
- TES - <https://www.tes.com/teaching-resources/digital-citizenship>