

Berrybrook Primary School Long Term

Computing Curriculum 2022-23

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Online Safety Computing Systems and Networks – Technology Around Us	Creating Media Digital Painting	Programming A A Moving A Robot <i>Internet Safety Day Tuesday 7th February</i>	Data and Information Grouping Data	Creating Media Digital Writing	Programming B Programming Animations
Year 2	Online Safety Computing Systems and Networks IT Around Us	Creating Media Digital Photography	Programming A Robot Algorithms <i>Internet Safety Day Tuesday 7th February</i>	Data and Information Pictograms	Creating Media Digital Music	Programming B Programming Quizzes
Year 3	Online Safety Computing Systems and Networks Connecting Computers	Creating Media Stop-Frame Animation	Programming A Sequencing Sounds <i>Internet Safety Day Tuesday 7th February</i>	Data and Information Branching Databases	Creating Media Desktop Publishing	Programming B Events and Actions in Programs
Year 4	Online Safety Computing Systems and Networks The Internet	Creating Media Audio Production	Programming A Repetition in Shapes <i>Internet Safety Day Tuesday 7th February</i>	Data and Information Data Logging	Creating Media Photo Editing	Programming B Repetition in Games

Year 5	Online Safety Computing Systems and Networks Systems and Searching	Creating Media Video Production	Programming A Selection in Physical Computing <i>Internet Safety Day Tuesday 7th February</i>	Data and Information Flat-File Databases	Creating Media Introduction to Vector Graphics	Programming B Selection in Quizzes
Year 6	Online Safety Computing Systems and Networks Communication and Collaboration	Creating Media Web Page Creation	Programming A Variables in Games <i>Internet Safety Day Tuesday 7th February</i>	Data and Information Spreadsheets	Creating Media 3D Modelling	Programming B Sensing Movement

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://ecl.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>