

Computing Long Term Plan, Including NC links: 2021-2022

	Autumn 1 – 7 weeks	Autumn 2 – 7 weeks	Spring 1 – 7 weeks	Spring 2 – 6 weeks	Summer 1 – 5 weeks	Summer 2 – 6 weeks
EYFS	UW Technology ELG (2012 EYFS): Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.					
Rainbows Computing	Mini Mash (reading, writing, maths and topic games for 2-5 year olds) Software to cover mouse skills, drawing, music making and problem solving. Curriculum maps and topic related resources available on Mini Mash Hardware available for child-initiated learning: Cameras, Bee Bots (coding), everyday technical appliances (phones/kettle/toaster/microscope/torches) Additional focus on Online Safety from Education in a Connected World/ Safer Internet Day					
KS1	Computing National Curriculum KS1: Computer Science: -KS1.1 understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions -KS1.2 create and debug simple programs -KS1.3 use logical reasoning to predict the behaviour of simple programs Information Technology: -KS1.4 use technology purposefully to create, organise, store, manipulate and retrieve digital content Digital Literacy: -KS1.5 recognise common uses of information technology beyond school -KS1.6 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.					
Year 1 Computing	Unit 1.1: Online safety & Exploring Purple Mash (4 weeks) KS1.6 Unit 1.2: Grouping & sorting (2 weeks) KS1.4	Unit 1.3: Pictograms (3 weeks) KS1.4 Unit 1.4: Lego builders (3 weeks) KS1.1	Unit 1.5: Maze explorers (3 weeks) KS1.1/ KS1.2/ KS1.3 Unit 1.6: Animated story books (5 weeks) KS1.4 <i>Safer Internet Day- 8.2.22</i>	Unit 1.6: Animated story books (cont- 5 weeks) KS1.4 Unit 1.7: Coding (6 weeks) KS1.1/ KS1.2/ KS1.3/ KS1.4	Unit 1.7: Coding (cont- 6 weeks) KS1.1/ KS1.2/ KS1.3/ KS1.4 Unit 1.8: Spreadsheets (3 weeks) KS1.4	Unit 1.9: Technology outside School (2weeks) KS1.5 (additional focus on Online Safety from Education in a Connected World) KS1.6
Year 2 Computing	<i>Unit 1.1: Online safety & Exploring Purple Mash (4 weeks) KS1.6</i> <i>Unit 1.9: Technology outside School (2weeks) KS1.5 (Recap as missed in Y1 20-21)</i> Unit 2.6: Creating pictures (5 weeks) KS1.4	Unit 2.2: Online safety (3 weeks) KS1.6 Unit 2.3: Spreadsheets- Crash course (4 weeks) KS1.4	Unit 2.7: Making music (3 weeks) KS1.4 Unit 2.5: Effective searching (3 weeks) KS1.4/ KS1.5 <i>Safer Internet Day- 8.2.22</i>	Unit 2.4: Questioning (linked to WR Maths Statistics) (5 weeks) KS1.4	Unit 2.1: Coding- Crash course (and Introduction to algorithms with Bee Bots) (linked to WR maths Position & Direction) (5 weeks) KS1.1/ KS1.2/ KS1.3	Unit 2.1: Coding- Crash course (cont- 5 weeks) KS1.1/ KS1.2/ KS1.3 Unit 2.8: presenting ideas (4 weeks) KS1.4 (additional focus on Online Safety from Education in a Connected World) KS1.6

KS2	<p>Computing National Curriculum KS2:</p> <p>Computer Science: -KS2.1 Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts -KS2.2. Use sequence, selection, and repetition in programs; work with variables and various forms of input and output -KS2.3 Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs -KS2.4 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</p> <p>Information Technology: -KS2.5 Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content -KS2.6 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</p> <p>Digital Literacy: -KS2.7 Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>					
Year 3 Computing *Optional unit- 3.9 Presenting with Powerpoint (5 weeks) KS2.6	<p>Unit 3.4: Touch Typing (4 weeks) KS2.6</p> <p>Unit 3.2: Online safety (3 weeks) KS2.7</p>	<p>Unit 3.3: Spreadsheets- Crash course (3 weeks) KS2.6</p> <p>Unit 3.7: Simulations (3 weeks) KS2.6</p>	<p>Unit 3.5: Email (including Email safety) (6 weeks) KS2.4/ KS2.6/ KS2.7</p> <p><i>Safer Internet Day- 8.2.22</i></p>	<p>Unit 3.1: Coding- Crash course (6 weeks) KS2.1/ KS2.2/ KS2.3</p>	<p>Unit 3.1: Coding- Crash course (cont- 6 weeks) KS2.1/ KS2.2/ KS2.3</p> <p>Unit 3.6: Branching databases (4 weeks) KS2.6</p>	<p>Unit 3.6: Branching databases (cont- 4 weeks) KS2.6</p> <p>Unit 3.8: Graphing (3 weeks) KS2.6</p> <p><i>(additional focus on Online Safety from Education in a Connected World) KS2.7</i></p>
Year 4 Computing *Optional unit- 4.9 Making Music (4 weeks) KS2.6	<p>Unit 4.2: Online safety (4 weeks) KS2.4 / KS2.7</p> <p>Unit 4.4: Writing for different audiences (5 weeks) KS2.6</p> <p><i>Additional keyboard skills and continuing Y3 Touch Typing</i></p>	<p>Unit 4.4: Writing for different audiences (5 weeks cont) KS2.6</p> <p>Unit 4.6: Animation (3 weeks) KS2.6</p> <p><i>Additional keyboard skills and continuing Y3 Touch Typing</i></p>	<p>Unit 4.3: Spreadsheets- crash course (6 weeks) KS2.6</p> <p><i>Safer Internet Day- 8.2.22</i></p>	<p>Unit 4.1: Coding (6 weeks) KS2.1/ KS2.2/ KS2.3/ KS2.6</p>	<p>Unit 4.7: Effective search (3 weeks) KS2.4/ KS2.5</p> <p>Unit 4.8: Hardware investigators (2 weeks) KS2.4</p>	<p>Unit 4.5: Logo (4 weeks) KS2.1/ KS2.2/ KS2.3</p> <p><i>(additional focus on Online Safety from Education in a Connected World) KS2.7</i></p>
Year 5 Computing *Optional unit- 5.8 Word processing, with Word (8 weeks) KS2.6	<p>Unit 5.2: Online safety (3 weeks) KS2.4/ KS2.7 <i>(Include references to NC KS2.5- effective searching, as missed 4.7 in Y4 20-21)</i></p> <p>Unit 5.6: 3D modelling (4 weeks) KS2.6 <i>(Note- 4.6 Animations missed in Y4 20-21)</i></p>	<p>Unit 5.3: Spreadsheets- Crash course (6 weeks) KS2.6</p>	<p>Unit 5.4: Databases (4 weeks) KS2.6</p> <p><i>Safer Internet Day- 8.2.22</i></p>	<p>Unit 5.1: Coding- Crash course (6 weeks) KS2.1/ KS2.2/ KS2.3/ KS2.6</p>	<p>Unit 5.5: Game creator (5 weeks) KS2.6 <i>(Note- 4.6 Animations missed in Y4 20-21)</i></p>	<p>Unit 5.7: Concept maps (4 weeks) KS2.6</p> <p><i>(additional focus on Online Safety from Education in a Connected World) KS2.7</i></p>

<p>Year 6 Computing</p> <p>*Optional unit- 6.8 Understanding Binary (4 weeks) KS2.3/KS2.4</p> <p>*Optional unit- 6.9 Spreadsheets (with Excel) (8 weeks) KS2.1/ KS2.3/ KS2.7</p>	<p>Unit 6.2: Online safety (2 weeks) KS2.4/ KS2.5/ KS2.7</p> <p>Unit 6.4: Blogging (5 weeks) KS2.4/ KS2.6/ KS2.7</p>	<p>Unit 6.3: Spreadsheets- Crash course (5 weeks) KS2.6</p>	<p>Unit 6.6: Networks (3 weeks) KS2.4</p> <p>Unit 6.5: Text adventures (5 weeks) KS2.1/ KS2.2/ KS2.3/ KS2.6</p> <p><i>Safer Internet Day- 8.2.22</i></p>	<p>Unit 6.5: Text adventures (cont- 5 weeks) KS2.1/ KS2.2/ KS2.3/ KS2.6</p> <p>(SATs preparation half term) Units can be altered if needed</p>	<p>Unit 6.1: Coding- Crash course (6 weeks) KS2.1/ KS2.2/ KS2.3/ KS2.6</p> <p>(SATs half term) Units can be altered if needed</p>	<p>Unit 6.7: Quizzing (6 weeks) KS2.6</p> <p>(additional focus on Online Safety from Education in a Connected World) KS2.7</p>
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