

Computing Curriculum Overview

NC links in italics

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*
2. *create and debug simple programs*
3. *use logical reasoning to predict the behaviour of simple programs*
4. *use technology purposefully to create, organise, store, manipulate and retrieve digital content*
5. *recognise common uses of information technology beyond school*
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.*

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*
2. *Use sequence, selection, and repetition in programs; work with variables and various forms of input and output*
3. *Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs*
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*
5. *Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content*
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*
7. *Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.*

Year 1	Unit 1.1 Online safety and exploring purple mash Unit 1.3 Pictograms <i>3,4,5,6</i>	Unit 1.4 Lego Builders <i>1, 2, 3</i>	Unit 1.9 Technology outside school <i>5,6,</i>	Unit 1.5 Maze Explorers <i>1,2,3,</i>	Unit 1.6 Animated Stories <i>4,6</i>	Unit 1.7 Coding <i>1,2,3,</i>
Year 2	Unit 1.1 Online safety and exploring purple mash Unit 2.2 Online Safety <i>4,6</i>	Unit 2.1 Coding <i>1,2,3</i>	Unit 2.7 Making Music <i>4</i>	Unit 2.8 Presenting Ideas <i>4</i>	Unit 2.5 Effective searching <i>4,5</i>	Unit 2.6 Creating pictures <i>4</i>
Year 3	Unit 3.2 Online Safety Unit 3.3 including emailing <i>6,7</i>	Unit 2.1 Coding Crash Course <i>1,2,3</i>	Unit 2.7 Making Music <i>6,7</i>	Unit 3.8 Graphing <i>6</i>	Unit 3.6 Branching Databases <i>6</i>	Unit 3.9 Presenting <i>6,7</i>
Year 4	Unit 4.1 Coding <i>1,2,3,6</i>	Unit 4.2 Podcast <i>4,7</i>	Unit 4.5 Logo <i>1,2,3,</i>	Unit 4.9 Making Music <i>6</i>	Unit 4.6 Animation <i>6</i>	Unit 4.7 Effective searching Unit 4.8 Hardware Investigators <i>4,5</i>

Year 5	Unit 5.1 Coding Unit 5.2 Online Safety <i>1,2,3,4,6,7</i>	Unit 5.6 3D Modelling Link to DT <i>6</i>	Unit 5.5. Game Creator <i>1,6</i>	Unit 5.8 Word Processing <i>6</i>	Unit 5.7 Concept Maps <i>6</i>	Unit 5.4 Databases <i>6</i>
Year 6	Unit 6.4 Blogging <i>4, 6, 7</i>	Unit 6.1 Coding Crash course Unit 6.2 Online safety <i>1,2,4,5,6,7</i>	Unit 6.6 Networks <i>4</i>	Unit 6.7 Quizzing <i>6</i>		Unit 6.3 Spreadsheets <i>6</i>