



Scalford Computing - Curriculum Map

National Curriculum	Our Vision	Notes
The national curriculum for computing aims to ensure that all pupils: - can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation - can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems - can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems - are responsible, competent, confident and creative users of information and communication technology.	We want our children to be digitally literate so that they are ready to navigate the workplace and to thrive and stay safe in the wider world. We also want them to understand the fundamental importance of computing in the modern world as well as its deep links with subjects such as maths and science. Through computing, children should develop logical and analytical thinking and a methodical, resilient approach to problem-solving. We want children to develop a flexible and creative mindset to equip them for the rapidly-changing nature of technology. We also want them to understand the importance of being a responsible digital citizen. The curriculum will teach children about computer science (programming and understanding how digital systems work), information technology (using computer systems to store, retrieve and send information) and digital literacy (evaluating digital content and using technology safely and respectfully).	Our Online Safety lessons are spread throughout the year to keep this important aspect at the forefront of our learning at all times. This subject is also covered in the PSHE curriculum The touch-typing app '2Type' is used throughout KS2 as a warm-up activity. In Bases 2 and 3, some units are on 1-year cycle (see green text) due to their cumulative nature (e.g. spreadsheets & coding) but these are fully differentiated across the year groups. Others are stand-alone and can therefore be taught out of sequence.

Base 1 – YR & Y1: 1 year cycle

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Unit 1.1: Online Safety & Exploring Purple Mash	Unit 1.3: Pictograms Unit 1.9: Technology outside school	Unit 1.4: Lego Builders <i>(NB the inclusion of this unit is optional and dependent on the cohort and time availability)</i> Unit 1.5: Maze Explorers	Unit 1.6: Animated Story Books	1.7: Coding	1.7: Coding

Base 2 – Y2 & 3: 2 year cycle

CYCLE A					
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Unit 2.2: Online Safety – Lesson 1 Unit 2.8: Presenting Ideas Unit 3.9: Presenting	Unit 2.5: Effective Searching	Unit 2.2: Online Safety – Lesson 2 Unit 3.6: Branching Databases	Unit 2.6: Creating Pictures	Unit 2.2: Online Safety – Lesson 3 Unit 2.1: Coding	Unit 3.1: Coding
CYCLE B					
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Unit 3.2: Online Safety – Lesson 1 Unit 2.8: Presenting Ideas Unit 3.9: Presenting	Unit 3.5: Email	Unit 3.2: Online Safety – Lesson 2 Unit 3.8: Graphing	Unit 2.7: Making Music	Unit 3.2: Online Safety – Lesson 3 Unit 2.3: Spreadsheets	Unit 3.3: Spreadsheets

Base 3 – Y4-6: 3 year cycle

CYCLE A					
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Unit 4.2: Online Safety – Lesson 1 Unit 4.8: Hardware Investigators & 6.6: Networks (a condensed summary) Unit 5.8: Word Processing (adapted, condensed and differentiated)	Unit 5.5 Game Creator	Unit 4.2: Online Safety – Lesson 2 Coding - Free Coding - Unit 5.1: Coding - Unit 6.1: Coding	Unit 4.6 Animation	Unit 4.2: Online Safety – Lesson 3 Touch-typing Unit 5.3: Spreadsheets Unit 6.9: Spreadsheets	Unit 6.8: Understanding Binary (Y6 only)
CYCLE B					
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Unit 4.2: Online Safety – Lesson 4 Unit 4.8: Hardware Investigators & 6.6: Networks (a condensed summary) Unit 5.8: Word Processing (adapted, condensed and differentiated)	Unit 5.4 Databases	Unit 5.2: Online Safety – Lesson 1 Coding - Free Coding - Unit 5.1: Coding - Unit 6.1: Coding	Unit 4.9: Making Music	Unit 5.2: Online Safety – Lesson 2 Touch-typing Unit 5.3: Spreadsheets Unit 6.9: Spreadsheets	Unit 6.8: Understanding Binary (Y6 only)
CYCLE C					
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Unit 5.2: Online Safety – Lesson 3 Unit 4.8: Hardware Investigators & 6.6: Networks (a condensed summary) Unit 5.8: Word Processing (adapted, condensed and differentiated)	Unit 6.7 Quizzing	Unit 6.2: Online Safety – Lesson 1 Coding - Free Coding - Unit 5.1: Coding - Unit 6.1: Coding	Unit 4.7: Effective Searching	Unit 6.2: Online Safety – Lesson 2 Touch-typing Unit 5.3: Spreadsheets Unit 6.9: Spreadsheets	Unit 5.6: 3D Modelling Unit 6.8: Understanding Binary (Y6 only)