



Willingham Primary School Computing Intent Statement



We aim to prepare our children for living in a digital world. We aim to provide our pupils with skills in Computer Science, Information Technology and Digital Literacy, alongside a strong foundation in e-safety knowledge, so they can keep themselves and others safe now and in the future.

Substantive and disciplinary knowledge			Procedural knowledge		
<p>Computer Science Pupils will know:</p> <p>That computer programs are written in a specific language and are used to control or simulate physical systems, solve problems, or entertain.</p> <p>A basic programming language and the key associated vocabulary</p> <p>That computer networks provide multiple services and opportunities for communication and collaboration</p>	<p>Information Technology Pupils will know:</p> <p>That searches on the internet can return results that are not credible, useful, or safe</p> <p>The difference between software and hardware</p> <p>That different software applications are useful for a range of purposes</p> <p>That different hardware/devices are suitable for different tasks and circumstances</p>	<p>Digital Literacy Pupils will know:</p> <p>Both the risks and benefits of using technology</p> <p>How to keep their personal data safe and ensure their privacy online</p> <p>How to use hardware appropriately</p> <p>That content, conduct, contact and commerce all pose a potential risk to their wellbeing and the wellbeing of others.</p> <p>How to report and respond to e-safety issues</p>	<p>Computer Science Pupils will be able to:</p> <p>Design, write and debug programs that accomplish specific goals</p> <p>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</p>	<p>Information Technology Pupils will be able to:</p> <p>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>Select appropriate software for the task at hand</p> <p>Create and design content, across different types of software for a range of audiences</p>	<p>Digital Literacy Pupils will be able to:</p> <p>Use a range of technology safely, respectfully and responsibly</p> <p>Recognise acceptable/unacceptable behaviour both in themselves and in others</p> <p>Utilise reporting tools to share concerns with appropriate agencies/adults</p> <p>Identify a range of ways to report concerns about content and contact</p>

Year Grp	Term	Cycle A	Cycle B
EYFS	Autumn 1		
	Autumn 2		
	Spring 1	<u>Information Technology</u> Drawing Skills (Purple Mash – 2Paint/2Paint a Picture)	
	Spring 2	<u>Information Technology</u> Photography (Using the iPad camera)	
	Summer 1	<u>Computer Science</u> Beebots (Position and direction)	
	Summer 2	<u>Digital Literacy</u> Safety and Privacy (Using https://www.childnet.com/resources/smartie-the-penguin/ EYFS resources)	
Y1/2	Autumn 1	<u>Digital Literacy</u> Unit 1.1 Online Safety and Exploring Purple Mash (6 weeks)	<u>Digital Literacy</u> Unit 1.1 Online Safety and Exploring Purple Mash (6 weeks)
	Autumn 2	<u>Digital Literacy</u> (Year 1) Unit 1.1 Online Safety and Exploring Purple Mash (6 weeks) <u>Information Technology</u> (Year 2) Unit 2.6 Creating Pictures (5 weeks)	<u>Digital Literacy</u> (Year 1) Unit 1.1 Online Safety and Exploring Purple Mash (6 weeks) <u>Computer Science</u> (Year 2) Unit 1.5 Algorithms (Maze Explorers) (4 weeks)
	Spring 1	<u>Computer Science</u> Unit 1.4 Algorithms (Lego Builders) (3 weeks) <u>Information Technology/Digital Literacy</u> Unit 2.5 Effective Searching (3 weeks)	<u>Information Technology</u> Unit 2.4 Questioning (5 weeks) <u>Digital Literacy</u> Unit 2.2 Online Safety (1 weeks)
	Spring 2	<u>Information Technology</u> Unit 1.2 Grouping and Sorting (2 weeks) <u>Digital Literacy</u> Unit 2.2 Online Safety (3 weeks)	<u>Digital Literacy</u> Unit 2.2 Online Safety (2 weeks) <u>Information Technology</u> Unit 1.6 Animated Story Books (5 weeks)
	Summer 1	<u>Information Technology</u> Unit 1.8 Spreadsheets (3 weeks) <u>Information Technology</u> Unit 1.9 Technology outside school (2 weeks) (This unit includes a school trip)	<u>Information Technology</u> Unit 1.3 Pictograms (3 weeks) <u>Information Technology</u> Unit 2.3 Spreadsheets (4 weeks)
	Summer 2	<u>Computer Science</u> Unit 1.7 Coding (6 weeks)	<u>Computer Science</u> Unit 2.1 Coding (5 weeks)

		(Sound required for this unit)	
Y3/4	Autumn 1	<u>Computer Science</u> Unit 4.1 Coding (6 weeks)	<u>Computer Science</u> Unit 3.1 Coding (6 weeks)
	Autumn 2	<u>Digital Literacy</u> Unit 4.2 Online Safety (4 weeks)	<u>Digital Literacy</u> Unit 3.2 Online Safety (3 weeks)
		<u>Information Technology</u> Unit 4.3 Spreadsheets (2 weeks)	<u>Information Technology</u> Unit 3.3 Spreadsheets (3 weeks)
	Spring 1	<u>Information Technology</u> Unit 4.3 Spreadsheets (4 weeks)	<u>Digital Literacy</u> Unit 3.4 Touch Typing (4 weeks)
		<u>Information Technology</u> Unit 4.4 Writing for Different Audiences (2 weeks)	<u>Digital Literacy/Information Technology</u> Unit 3.5 Email (including email safety) (2 weeks)
	Spring 2	<u>Information Technology</u> Unit 4.4 Writing for Different Audiences (3 weeks)	<u>Digital Literacy/Information Technology</u> Unit 3.5 Email (including email safety) (4 weeks)
<u>Computer Science</u> Unit 4.5 Logo (text based coding language) (3 weeks)		<u>Information Technology</u> Unit 3.6 Branching Databases (2 weeks)	
Summer 1	<u>Computer Science</u> Unit 4.5 Logo (text based coding language) (1 week)	<u>Information Technology</u> Unit 3.6 Branching Databases (2 weeks)	
	<u>Digital Literacy</u> Unit 4.6 Animation (3 weeks)	<u>Information Technology</u> Unit 3.7 Simulations (3 weeks)	
	<u>Information Technology/Digital Literacy</u> Unit 4.7 Effective Search (2 weeks)		
Summer 2	<u>Information Technology/Digital Literacy</u> Unit 4.7 Effective Search (1 weeks)	<u>Digital Literacy</u> Unit 3.8 Graphing (3 weeks)	
	<u>Information Technology</u> Unit 4.8 Computer Hardware (Hardware Investigators) (2 weeks)	Consolidation (3 weeks)	
	Consolidation		
Y5/6	Autumn 1	<u>Computer Science</u> Unit 5.1 Coding (6 weeks)	<u>Computer Science</u> Unit 6.1 Coding (6 weeks)
	Autumn 2	<u>Digital Literacy</u>	<u>Digital Literacy</u>

		Unit 5.2 Online Safety (3 weeks) <u>Information Technology</u> Unit 5.3 Spreadsheets (3 weeks)	Unit 6.2 Online Safety (3 weeks) <u>Information Technology</u> Unit 6.3 (3 weeks) Spreadsheets
	Spring 1	<u>Information Technology</u> Unit 5.3 Spreadsheets (3 weeks) <u>Information Technology</u> Unit 5.4 Databases (3 weeks)	<u>Information Technology</u> Unit 6.3 Spreadsheets (2 weeks) <u>Information Technology</u> Unit 6.4 Blogging (5 weeks)
	Spring 2	<u>Information Technology</u> Unit 5.4 Databases (1 week) <u>Information Technology</u> Unit 5.5 Game Creator (5 weeks)	<u>Information Technology</u> Unit 6.4 Blogging (1 week) <u>Computer Science</u> Unit 6.5 Coding Games - Text Adventures (5 weeks)
	Summer 1	<u>Information Technology</u> Unit 5.6 3D Modelling (4 weeks) <u>Computer Science</u> Unit 5.7 Concept Maps (2 weeks)	<u>Information Technology</u> Unit 6.6 Networks (3 weeks) <u>Information Technology</u> Unit 6.7 Quizzing (3 weeks)
	Summer 2	<u>Computer Science</u> Unit 5.7 Concept Maps (2 weeks) Consolidation	<u>Information Technology</u> Unit 6.7 Quizzing (3 weeks) Consolidation