



Computing

Skills Progression

Our computing curriculum is rooted in the structured progression provided by Purple Mash, which forms the foundation for the development of pupils' knowledge and skills from EYFS through to Year 6. This ensures clear, sequential learning across key areas such as coding, online safety, data handling and digital literacy.

Beyond this core provision, we are committed to enriching pupils' experiences through wider opportunities, including our iPad club, where pupils can further explore creativity, problem-solving and digital collaboration. Technology is also embedded across the wider curriculum, supporting learning in subjects such as English, mathematics, science and the foundation subjects. This approach enables pupils to apply and deepen their computing skills in meaningful contexts, preparing them to become confident, responsible and creative users of technology in an ever-evolving digital world.

EYFS	Coding	Online Safety	Technology in the World	Multimedia
	Begin to understand that actions cause reactions (cause/effect)	Understand that devices connect to the internet	Recognise common technology (computers, tablets, interactive boards)	Use simple tools to draw and create pictures (e.g. 2Paint)
	Use simple directional language (forwards, backwards)	Recognise that adults help keep them safe online	Use technology independently in provision	Add images and simple text with support
	Follow and give simple instructions	Begin to understand personal information		

	Coding (2Code)	Online Safety (2Connect)	Spreadsheets (2Calculate)	Multimedia (2Publish / 2Paint)	Internet & Email (2Email)	Hardware & Networks	Databases
Year 1	<p>Understand algorithms as a set of instructions</p> <p>Create simple programs using directional commands</p> <p>Predict outcomes of simple code</p>	<p>Understand what personal information is</p> <p>Recognise trusted adults online</p> <p>Know how to stay safe when using devices</p>	<p>Enter simple data into cells</p> <p>Use basic counting tools</p>	<p>Create simple digital texts with images</p> <p>Format text (size, colour)</p>		<p>Log in independently</p> <p>Save and retrieve work</p>	
Year 2	<p>Use simple loops (repeat commands)</p> <p>Debug simple programs</p> <p>Create simple animations</p>	<p>Understand safe searching</p> <p>Recognise inappropriate content and report it</p>	<p>Use simple formulas (e.g. totals)</p> <p>Create pictograms</p>	<p>Combine text and images effectively</p> <p>Use templates to present ideas</p>			<p>Sort and classify information</p> <p>Use simple search tools</p>
Year 3	<p>Use sequence, selection (if statements), and repetition</p>	<p>Understand digital footprints</p>	<p>Use formulas (addition, subtraction)</p> <p>Create graphs</p>	<p>Create presentations combining media</p>	<p>Send and reply to emails safely</p>	<p>Understand how devices connect</p> <p>Basic idea of networks</p>	<p>Use branching databases</p>

	Debug more complex programs Design simple games	Recognise online communication risks		Use animations and transitions	Understand email etiquette		Ask and answer questions from data
Year 4	Use nested loops and variables Create interactive programs Debug systematically	Understand privacy settings Recognise online bullying and how to respond	Use formulas with cell references Model real-life situations	Create structured presentations for audiences Combine audio, images, and text	Use search engines effectively Evaluate sources	Understand the internet as a network of networks Know how information is shared	Create and search databases Interpret data
Year 5	Use variables effectively Create simulations and games Use decomposition to plan programs	Understand online identity Evaluate reliability of websites Understand consequences of online actions	Use complex formulas Create financial models (budgets)	Create high-quality digital content for a purpose. Edit and refine work	Understand how search engines rank results Use email appropriately in different contexts	Understand how data travels across networks Basic understanding of servers and routers	Design databases with multiple fields Analyse data trends
Year 6	Design and build complex programs	Critically evaluate online content	Use advanced formulas	Produce professional-	Understand how the web works (HTML	Understand cloud computing	Use complex

	Use variables, selection, and loops fluently Debug independently and efficiently	Understand cyberbullying, phishing, and scams Manage digital identity responsibly	Analyse and interpret data Present findings clearly	quality presentations Combine multiple forms of media effectively	basics awareness) Evaluate bias and reliability	Recognise how systems work together	searches (AND/OR) Draw conclusions from data
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