

	Reception & Year 1		Year 2 & 3		Year 4, 5 & 6		
	Year A	Year B	Year A	Year B	Year A	Year B	Year C
Knowledge & Understanding	Recognise technology in everyday life (e.g., tablets, phones, computers).	Explore simple digital tools, such as paint programs and basic coding apps.	Understand what algorithms are and how they are used in programs.	Learn how digital content is created and shared. Understand the importance of privacy and passwords online.	Understand more advanced coding concepts such as loops and variables.	Be able to use technology to create films and podcasts.	Explore artificial intelligence (AI) and emerging technologies.
	Understand that computers follow instructions (algorithms).	Understand that digital devices can store and retrieve information.	Learn about responsible internet use and online communication.	Explore how search engines work and how to use them safely.	Expand knowledge of presentation and data handling software.	Develop understanding of CAD to create more detailed / refined 3D printed products.	Expand knowledge of coding through using a range of software / hardware (Crumble, Lego WeDo etc.)
	Learn about online safety and responsible technology use.	Learn that sequences of instructions (algorithms) can make things happen.	Increased understanding of how to use software including Word, Publisher, PowerPoint etc.	Understand how digital technology can be used to design real life products.	Explore the impact of digital technology on society. Learn how computers communicate over networks, including the internet.	Understand copyright, plagiarism, and responsible digital use.	Develop media and digital literacy knowledge.

Armathwaite School

Computing Progression Map

Skills Development	<p>Use a mouse, touchscreen, and keyboard to interact with digital content.</p> <p>Follow simple instructions to complete a task.</p> <p>Begin to develop an understanding of how to use technology safely and who to ask for help.</p>	<p>Create digital drawings and simple animations.</p> <p>Take and store digital images.</p> <p>Follow and create simple sequences of instructions (basic coding).</p>	<p>Write simple algorithms and debug errors in basic coding programs (e.g. Scratch, Beebots).</p> <p>Know how to use technology safely and responsibly and who to report concerns to / ask for help.</p> <p>Use a keyboard and mouse with increased confidence</p>	<p>Create and organise digital documents (text, images, video).</p> <p>Use search engines to find information safely.</p> <p>Begin to use CAD to design products for 3D printing.</p>	<p>Write more complex programs incorporating sequences, loops, and conditionals.</p> <p>Use different types of software for presentations and data handling.</p> <p>Learn about cyber safety, digital footprints, and online security.</p>	<p>Create and edit multimedia projects (videos, podcasts, presentations).</p> <p>Independently design products using CAD and 3D print.</p> <p>Evaluate digital information for reliability and bias.</p>	<p>Explore how AI and machine learning work.</p> <p>Be able to apply coding skills flexibly.</p> <p>Further develop skills of media literacy.</p>
Key Vocabulary	<p>Computer, tablet, screen, keyboard, mouse, click, drag, type, internet, online safety, technology.</p>	<p>Algorithm, program, instruction, sequence, save, open, delete, digital, device.</p>	<p>Code, debug, sequence, input, output, data, program, animation, file, folder.</p>	<p>Data, database, search, website, link, document, graph, chart, online safety, password, CAD, filament, 3D</p>	<p>Network, internet, loop, variable, function, cyber security, encryption, digital footprint, spreadsheet, formula, cell, hyperlink.</p>	<p>copyright, plagiarism, database, algorithm, CAD, plate, filament, slicing, podcast, media.</p>	<p>AI, machine learning, program, loop, input, output, media literacy.</p>