



Computing Curriculum Overview 25-26

	Autumn Term		Spring Term		Summer Term	
	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
R	Online Safety An introduction to using an electronic device.	Creating with Materials Exploring pattern making, creating and recording ideas.	Technology Around Us Exploring how things work, including design and role play.	Creating with Materials Exploring logical reasoning, giving instructions and sequencing.	Communication and Language An introduction to digital literacy skills.	Creating with Materials Collaborative work to create and debug maps relating to surroundings.
Year 1	Coding Project A – Code.org. Program using commands. <i>Online Bullying</i>	Creating Media <u>Digital Drawing</u> – use tools to create digital paintings (JIT5). <i>Copyright and Ownership</i>	Programming <u>Moving a Robot</u> – explore using individual commands. <i>Managing Online Information</i>	Creating Media <u>Digital writing</u> – use a computer to create and change text. <i>Privacy and Security</i>	Programming <u>Intro to Animation</u> – introduction to on-screen programming (Scratch Jr). <i>Online Relationships/ Reputation</i>	Computer Systems <u>Technology Around Us</u> – understanding technology and how it can help them in everyday lives. <i>Self-Image and Identity</i>
Year 2	Coding Project B – Code.org. Repeated pattern making. <i>Self-Image and Identity</i>	Photos - iPads <u>Creating Media with Photographs</u> – recognise that different devices can be used to capture photographs and gain experience capturing, editing, and improving photos. <i>Online Bullying</i>	Programming <u>Robot Algorithms</u> – instructions in sequences and the use of logical reasoning to predict outcomes. <i>Privacy and Security</i>	Creating Media <u>Digital Music</u> – make patterns and use those patterns to make music with both percussion instruments and digital tools. <i>Managing Online Information</i>	Programming <u>Introduction to Quizzes</u> – understand that sequences of commands have an outcome and make predictions. <i>Online Relationships/ Reputation</i>	Computer Systems <u>IT Around Us</u> – understanding of what information technology (IT) is and identifying examples. <i>Copyright and Ownership</i>

Year 3	Coding Project C – Code.org. Sequencing. Build as you go programming. Debugging code. Creating art with code. <i>Online Bullying</i>	Desktop Publishing Creating Media – use desktop publishing software and consider careful choices of font size, colour and type to edit and improve premade documents. <i>Copyright and Ownership</i>	Scratch Sequencing – explore the concept of sequencing in programming through Scratch. <i>Self-Image and Identity</i>	Stop Motion Studio Stop Frame Animation – use a range of techniques to create a stop-frame animation using tablets. <i>Privacy and Security</i>	Scratch Events and Actions – explore the links between events and actions within programming. <i>Online Relationships/ Reputation</i>	Databases Branching Databases – develop understanding of what a branching database is and how to create one. <i>Managing Online Information</i>
Year 4	Coding Project D – Code.org. Sequencing. Build as you go. Conditional formatting. Looping. <i>Privacy and Security</i>	Audio Production Podcasts – discuss ownership of audio, recording and producing your own audio (Garage Band). <i>Online Bullying</i>	Turtle Repetition in Shapes – create programs by planning, modifying, and testing commands to create shapes and patterns. <i>Managing Online Information</i>	Photo Editing Creating Media – develop understanding of how digital images can be changed and edited. <i>Copyright and Ownership</i>	Scratch Repetition in Games – explore the difference between count-controlled and infinite loops and modify existing animations and games using repetition. <i>Online Relationships/ Reputation</i>	Computer Systems The Internet – appreciate the internet as a network of networks which need to be kept secure. <i>Self-Image and Identity</i>
Year 5	Coding Project E – Code.org Looping. Functions. Conditionals. <i>Privacy and Security</i>	Vector Drawing Vector Drawing – create vector drawings using different drawing tools to create images. <i>Online Bullying</i>	Programming with micro:bits Physical Computing – explore the concept of selection in programming. <i>Online Relationships/ Reputation</i>	Video Creating Media – creating videos through capturing, editing and manipulating videos. <i>Copyright and Ownership</i>	Scratch Selection in Quizzes – learning how the ‘if... then... else...’ structure can be used to select different outcomes depending on whether a condition is ‘true’ or ‘false’. <i>Managing Online Information</i>	Computer Systems Sharing Information – understand computer systems and how information is transferred between systems and devices. <i>Self-Image and Identity</i>

Year 6	Coding Project F – Code.org. Variables in different contexts. <i>Online Bullying</i>	Tinkercad <u>3D Modelling</u> – gain knowledge and understanding of using a computer to produce 3D models. <i>Copyright and Ownership</i>	Scratch <u>Variables in Games</u> – explore the concept of variables in programming through games in Scratch. <i>Managing Online Information</i>	Websites <u>Web Page Creation</u> – create and identify a good web page, including copyright issues. <i>Self-Image and Identity</i>	Programming with micro:bits <u>Sensing</u> – use previous learning to utilise a physical device. <i>Online Relationships/ Reputation</i>	Spreadsheets <u>Data and Information</u> – organise data and use formulas to produce calculated data. <i>Privacy and Security</i>
Year 7	Digital Media <i>Effective Use of Tools & Safety and Security</i>	Digital Media / Networks <i>Networks & Computing Systems</i>	Networks / Scratch – Part I <i>Algorithms & Programming</i>	Scratch – Part I / Spreadsheets <i>Effective Use of Tools & Creating Media</i>	Spreadsheets / Scratch – Part II <i>Algorithms & Programming</i>	Scratch – Part II <i>Algorithms & Programming</i>
Year 8	Computing Architecture <i>Computing Systems</i>	Computing Architecture / Binary <i>Data and Information</i>	Binary / Representing Data <i>Computing Systems</i>	Representing Data / Cybersecurity <i>Impact of Technology & Safety and Security</i>	Cybersecurity / Intro to Python <i>Algorithms & Programming</i>	Intro to Python <i>Algorithms & Programming</i>
Year 9	Advanced Spreadsheets <i>Algorithms & Programming</i>	Advanced Spreadsheets / Business Project <i>Effective Use of Tools & Creating Media</i>	Business Project <i>Effective Use of Tools & Creating Media</i>	Game Development <i>Algorithms & Programming</i>	Game Development / User Interface Design <i>Effective Use of Tools & Creating Media</i>	User Interface Design <i>Effective Use of Tools & Creating Media</i>
Year 10	Component 1: User Interface Design <i>Effective Use of Tools & Creating Media</i>	Component 1: User Interface Design <i>Effective Use of Tools & Creating Media</i>	Component 2: Spreadsheets <i>Data and Information & Programming</i>	Component 2: Spreadsheets <i>Data and Information & Programming</i>	Component 2: Spreadsheets <i>Data and Information & Programming</i>	Component 3: Digital Working Practices Exam <i>Impact of Technology</i>

Year 11	Component 3: Digital Working Practices Exam <i>Impact of Technology</i>	Component 3: Digital Working Practices Exam <i>Impact of Technology</i>	Component 3: Digital Working Practices Exam <i>Impact of Technology</i>	Component 3: Digital Working Practices Exam <i>Impact of Technology</i>	End of Option	End of Option
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