Computing Sequence of Learning Reception to Year 6 “Why this, Why now?”

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	Online Safety
Rec Unit	Computing through continuous provision	Using a computer	All about instructions	Exploring hardware	Programming Bee-Bots	Introduction to data	Introduction to the SMART rules (UK Safer Internet & Childnet)
Area of Computing	Computing systems and networks	Computing systems and networks	Programming	Computing systems and networks	Programming	Data Handling	Online Safety
Reception Vocabulary	I-pad camera computer smartboard	Mouse Login Click Drag Keyboard	Instruction Follow Obstacle Debug Algorithm	Motherboard USB stick System fan Hard drive Monitor Computer tower Camera Photograph Gallery Album	Bee-bot Programme Direction Arrow Instructions Forward Backwards Left Right Straight on Turn	Sort Pictogram Group Colour Height Weight Size Length	Safe Tell Trusted adult Uncomfortable Worried Strangers Permission
Year 1 Unit	Improving mouse skills	Algorithms unplugged	Rocket to the moon	Programming Bee-Bots	Digital Imagery	Introduction to data	Online Safety Year 1 (4 lessons)
Area of Computing	Computing systems and networks	Programming	Skills showcase	Programming	Creating media	Data handling	Online Safety
Year 1 Vocabulary	Log in Login Log out/off Mouse Mouse pointer Click Keyboard Screen Password Account	Algorithm Bug Code Debug Input Output Decompose Sequence	Data Annotate Cells Order Spreadsheet	Bee-Bot Clear Inputting Pause Sequence Progam	Import Search engine Filter Resize Photograph Edit	Data Record Representation Pictogram Table Chart Branching database	Internet Posting Online Personal information Online safety

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	Online Safety
Year 2 Unit	What is a computer	Algorithms and debugging	Word processing	Programming ScartchJr	Stop motion	International Space Station	Online Safety Year 2 (5 lessons)
Area of Computing	Computing systems and networks	Programming	Computing systems and networks	Programming	Creating media	Data handling	Online Safety
Year 2 Vocabulary	Button Cause Effect Technology Invention Till (paying) Scanner Tablet Video	Decomposition Precise Solve Loop Efficient Algorithm Predict	Space bar Backspace Delete Highlight Copy Paste	Animation Code Loop Create Blocks 'On tap' Repeat	Animation Animator Design Filming Plan Sketch Stop motion Storyboard	Algorithm Astronaut International Space Station Temperature Thermometer Monitor Sensor Habitable	Accept Comment Consent Permission Deny Pop-ups Pressure Private
Year 3 Unit	Networks	Programming Scratch	Emailing	Journey inside a computer	Video trailers	Comparison cards databases	Online Safety Year 3 (4 lessons)
Area of Computing	Computing systems and Networks	Programming	Computing systems and networks	Computing systems and networks	Creating media	Data handling	Online Safety
Year 3 Vocabulary	Device Network Wired Wireless Packet data Router The cloud	Code block Coding application Repetition code Remixing code Debug Review Scratch Sprite Tinker	Email Send Edit Email address Email account Subject	Input Output Laptop Memory Hard Drive Keyboard Microphone Desktop Monitor (computer monitor)	Trailer Video Edit Film Camera angle Text Transition Evaluate Voiceover Sound effect	Data Field Record Value Spreadsheet Sort Filter Graph Category	Fact Opinion Belief Social media Digital device Fake news Block

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	Online Safety
Year 4 Unit	Collaborative Learning	Further coding with Scratch	Website Design	HTML	Computational Thinking	Investigating weather	Online Safety Year 4 (6 lessons)
Area of Computing	Computing systems and networks	Programming	Creating media	Skills showcase	Programming	Data handling	Online Safety
Year 4 Vocabulary	Collaborative Comments Document Conditional formatting Calculate Transitions Link	Decompose Interface Predict Debug Remixing code Systematic Purpose	Sway Title Header Audience Feature Hyperlink	Code HTML CSS Start tag End tag Heading Script Copyright	Abstraction Computational thinking Decomposition Logical reasoning Pattern recognition Variable Sequence	Accurate Sensor data Satellite Weather forecast Presenter Climate zone	Accuracy Persuade Fact Opinion Belief Bot Trustworthy Sponsored
Year 5 Unit	Search Engines	Programming music	Mars Rover 1	Micro:bit	Stop motion animation	Mars Rover 2	Online Safety Year 5 (5 lessons)
Area of Computing	Computing systems and networks	Programming	Data handling	Programming	Creating media	Skills Showcase	Online Safety
Year 5 Vocabulary	Search engine TASK Copyright Fair use Web crawler Result Rank	Sample Sonic Pi Rhythm Repetition Buffer Commands Live loops Enhance	8-bit binary Binary code Boolean ASCII Data transmission Signal Radio signal	'On start' 'forever' Variable Sabotage Micro:bit Pairing Bluetooth Polling	Character Flip book Fluid movement Frames Model Onion skinning Thaumatrope Zoetrope	Binary image Pixel JPEG bitmap Fetch Decode Execute Online community	App permissions Bullying In-app purchases Mindfulness Mental health Memes
Year 6 Unit	Bletchley Park	Intro to Python	Big data 1	History of Computers	Big data 2	Inventing a product	Online Safety Year 6 (6 lessons)
Area of Computing	Computing systems and networks	Programming	Data handling	Creating media	Data Handling	Skills showcase	Online Safety
Year 6 Vocabulary	Cipher Scrambled Secure Trial and error Technological advancement	Indentation Testing Nested loop Random Modify	Barcode QR code QR scanner Infared RFID Formula Data analyst	RAM ROM Processor Byte Gigabyte Kilobyte Megabyte Terrabyte	Big Data Corrupted Internet of Things Simulation Smart city Smart school	Adapt Image rights Influence Manipulation Snippet	Digital reputation Two-factor authentication Scam Privacy settings Phishing Hacking Malware Digital footprint