

West Green Primary Early Years and KS1 Computing Overview

Topic. Key vocabulary.

Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	Throughout Reception, children will experience and be taught, a range of technological related knowledge. They will develop and explore their understanding through directed sessions and self-initiated activities, focusing on programming, staying safe with devices and online, technology around them and how it can be used, as well as how it has changed. Technology, safe, trust, private, screen time, changes in technology, internet, toys, ipad, tablet, phone, camera, BeeBot, TV, device, programme, instructions					
1	<p>Computing systems and networks: Improving mouse skills</p> <p>Account, cursor, duplicate, layers, tool</p> <p>Online safety, lesson 1</p> <p>Device, pop-up, report, digital citizen</p>	<p>Programming 1: Algorithms unplugged</p> <p>Code, decompose, input, output, motion, sequence</p> <p>Online safety, lesson 2</p> <p>Personal information, trusted adult, stranger</p>	<p>Skills showcase: Rocket to the moon</p> <p>Annotate, components, editing program, software, spreadsheet, cells</p> <p>Online safety, lesson 3</p> <p>In-person interactions, online interactions</p>	<p>Data handling: Introduction to data</p> <p>Branching database, categorise, data, pictogram, graph, tally</p> <p>Online safety, lesson 4</p> <p>App, digital footprint, website</p>	<p>Programming 2: Bee bots</p> <p>Artificial intelligence, Bee-Bot, demonstration, pause, program, video</p> <p>Online safety, lesson 5</p> <p>Online activity, offline activity, screen time, technology</p>	<p>Creating media: Digital imagery</p> <p>Camera, crop, device, download, import, resize, search engine</p>
2	<p>Computing systems and networks 1: What is a computer?</p> <p>Battery, desktop, function, system, screen</p> <p>Online safety, lesson 1</p> <p>Consent, permission, sharing online</p>	<p>Programming 1: Algorithms and debugging</p> <p>Abstraction, loop, debug, error</p> <p>Online safety, lesson 2</p> <p>Password, private information</p>	<p>Creating media: Stop motion (tablets)</p> <p>Animation, flipbook, opinion skinning, still images, object, plan</p> <p>Online safety, lesson 3</p> <p>Accepting, permission, pressure, denying</p>	<p>Data handling: International space station</p> <p>Experiment, interpret, laboratory, interactive map, satellite, sensor</p>	<p>Programming 2: Make code</p> <p>Block coding, evaluate, micro:bit, programming, sequence, MakeCode</p> <p>Online safety, lesson 4</p> <p>Fake, real, source, reliable</p>	<p>Systems and networks 2: Word processing</p> <p>Backspace, bold, copy, copyright, cut, layout, navigate, undo</p>

West Green Primary KS2 Computing Overview

Topic. Key vocabulary.

Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
3	<p>Computing systems 1: Networks</p> <p>Corrupted, DSL (digital subscriber line), fibre, network, router, server, trackers</p> <p>Online safety, lesson 1</p> <p>Fake news, hoax, search engine, reliable</p>	<p>Programming: Scratch</p> <p>Application, interface, loop, sprite</p> <p>Online safety, lesson 2</p> <p>Content, permission, share</p>	<p>Computing 2: Emailing (Microsoft)</p> <p>Attachment, bcc (blind carbon copy), cyberbullying, domain, hacker, scammer, virus</p> <p>Online safety, lesson 3</p> <p>Charity, online emotions, organisation</p>	<p>Computing systems: Journey inside a computer</p> <p>CPU (central processing unit), GPU (graphics processing unit), hard drive, RAM (random access memory), ROM (read only memory), HDD (hard disk drive)</p> <p>Online safety, lesson 4</p> <p>Autocomplete, digital device, smart devices, internet of things</p>	<p>Creating media: Video trailers (iPads)</p> <p>Clip, graphics, time code, transition, voiceover, cross dissolve, wipe</p> <p>Online safety, lesson 5</p> <p>Age restrictions, search, social media platforms</p>	<p>Data handling: Comparisons cards database</p> <p>Fields, filter, PDF, interpret, questionnaire</p>
4	<p>Computing systems: Collaborative learning (Office 365)</p> <p>Average, collaboration, conditional formatting, icon, reviewing comments, format</p> <p>Online safety, lesson 1</p> <p>Accuracy, snippets, trustworthy, advertisement, sponsored</p>	<p>Programming 1: Further coding with scratch</p> <p>Broadcast block, conditional, coordinates, orientation, parameters, script, variables</p> <p>Online safety, lesson 2</p> <p>Ad, in-app purchases, influencer, recommendation</p>	<p>Creating media: Website design (Office 365)</p> <p>Embed, hyperlinks, design view, stack, transform, Microsoft Sway</p> <p>Online safety, lesson 3</p> <p>Belief, fact, opinion, reliability</p>	<p>Skills showcase: HTML</p> <p>CSS, tags, hex code, HTML, URL, remixing</p> <p>Online safety, lesson 4</p> <p>Computer, program, bot, risk</p>	<p>Data handling: Investigating weather</p> <p>Heat sensor, measurement, sensor data, forecast</p> <p>Online safety, lesson 5</p> <p>Distraction, hashtag, screen time</p>	<p>Programming 2: Computational thinking</p> <p>Computational thinking, logical reasoning, pattern recognition</p>
5	<p>Data handling: Mars Rover 1</p> <p>8-bit binary, ASCII, binary code, Boolean, byte, transmission, hexadecimal</p> <p>Online safety, lesson 1</p> <p>App, permission, password</p>	<p>Skills showcase: Mars Rover 2</p> <p>3D, CAD, compression, "fetch, decode, execute", JPEG, pixel</p> <p>Online safety, lesson 2</p> <p>Emojis, meme, contribution, communication</p>	<p>Computing systems: Search engines</p> <p>Data leak, index, privacy, rank, TASK, web crawler</p> <p>Online safety, lesson 3</p> <p>Biography, judgement, summarise, information</p>	<p>Programming 1: Music (Scratch)</p> <p>Command, tutorials, soundtrack, spacing</p> <p>Online safety, lesson 4</p> <p>Bullying, online, real world, organisation</p>	<p>Programming 2: Micro: bit</p> <p>Bluetooth, outputs, pairing, pedometer, sabotage, USB</p> <p>Online safety, lesson 5</p> <p>Mental health, mindfulness, well-being, support</p>	<p>Creating media: Stop motion animation (use of cameras)</p> <p>Animator, frame, thaumatrope, zoetrope</p>
6	<p>Programming: Introduction to python</p> <p>Indentation, random, remix, shape, loop, code</p> <p>Online safety, lesson 1</p> <p>Block, online, privacy settings, report</p>	<p>Data handling 1: Big data 1</p> <p>Barcode, chips, encrypted, infrared, proximity, MagicBand</p> <p>Online safety, lesson 2</p> <p>Consent, screenshot, selfie, inappropriate, private</p>	<p>Computing systems: Bletchley park and the history of computers</p> <p>Acrostic code, cipher, technological advancement, trial and error, scrambled</p> <p>Online safety, lesson 3</p> <p>Anonymity, digital footprint, online reputation, digital personality</p>	<p>Computing systems and networks: AI</p> <p>AI generated image/text, fake, ethical, implications, generate, authenticity</p> <p>Online safety, lesson 4</p> <p>Block, report, screen grab, URL</p>	<p>Data handling 2: Big data 2</p> <p>GPS, Internet of Things, revolution, SIM, simulation</p> <p>Online safety, lesson 5</p> <p>Biometrics, hacking, two-factor authentication, secure</p>	<p>Skills showcase: Inventing a product</p> <p>Debugging, image rights, screenshot, structures, influence, inputs</p> <p>Online safety, lesson 6</p> <p>Antivirus, malware, phishing, software updates</p>