Sandford Hill Primary School Curriculum Overview: Computing

Thoughtfulness and Respect

Year Group	Autumn term		Spring term		Summer term	
EYFS	Technology inside and outside of school		Algorithms - Beebots		Exploring Purple Mash/Mini Mash	
Vocabulary	Technology, computer, interactive whiteboard, iPad, story headphones		Beebot, program, algorithm, instruction, debug, direction		Purple Mash/Mini Mash, website, username, password, avatar, log in, log out	
E-safety	Health and well-being *Safe, rules, internet, screen time, personal information, stranger* Online Reputation *Safe, stranger, website, internet, message, social media*	Online bullying *Bullying, bully, trusted adult, feelings*	Self-image and identity *Feelings, trusted adult, internet, online*	Online relationships Communication, *devices, email, tablet, computer*	Managing online information *Search, information, internet, website, question, search engine, computer, device*	Privacy and security *Password, personal information, private, trusted adult, safe, online* Copyright and ownership *Belong, own, name, create*

Sandford Hill Primary School Curriculum Overview: Computing
Thoughtfulness and Respect

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Exploring Purple Mash	Algorithms – Lego Builders/Beebots	Pictograms Maze Explorers	Animated Stories	Coding	Grouping and sorting Technology inside and outside of school
Vocabulary	Log in/out, username, password, avatar, save, open, file, notification, tools section	Instruction, algorithm, sequence, debug, program, Beebot direction keys	Pictogram –pictogram, data, collate, tally chart Maze Explorers - Algorithm, instruction, debug, direction – forwards, backwards, right turn, left turn, undo	Animation, electronic book (e-book), font, sound effect, file, text, page	Algorithm, coding, code block input, output, program, object, action, command, event	Grouping and sorting – sorting, grouping, criteria Technology inside and outside of school – technology, device, purpose
E-safety	Health and well-being *Rules, technology, healthy lifestyle, permission, safety* Online Reputation *Reputation, personal information, trusted adult, social media, internet*	Online bullying *Unacceptable behaviour, bullying, communication, unkind, safe*	Self-image and identity *Trusted adult, online, stranger, feelings*	Online relationships *Internet, online, kind, behaviour, communication*	Managing online information *Apps, reliable, trusted, website, research, search engine, Google*	Privacy and security *Private, secure, password* Copyright and ownership *Permission, ownership, save, name*

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Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 2	Coding	Creating Pictures	Making music	Questioning	Presenting Ideas	Spreadsheets
Vocabulary	*Algorithm, instruction, program, code, debug, code block, command, action, object, input, output*	*Impressionism, pointillism, palette, surrealism, template, pattern*	*BPM – beats played in a minute, composition, Instrument, music, tempo, volume, sound effects, soundtrack*	*Pictogram, question, data, collate, binary tree, avatar, database*	*Concept Map/mind map, quiz, presentation, narrative, audience, node, animation, fact-file*	*Spreadsheet, row, column, cell, copy, paste, count tool, equals tool*
E-safety	Health and well-being *Technology, permission, screen, apps, information, website, safety, device, Google, search engine* Online Reputation *Identity, personal information, private, sharing, internet, online*	Online bullying *Messenger, communication, apps, online, unkind, safe, bullying*	Self-image and identity *Adult, trust, help, internet, online*	Online relationships *Internet, online, email, communicate, email address, subject*	Managing online information *Fact, research, information, website, digital assistant, Google, search Engine*	Privacy and security *Private, secure, password, information* Copyright and ownership *Permission, Ownership, copyright*

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Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3	Touch typing	Spreadsheets	Coding	Email	Simulations	Branching Database
Vocabulary	*Posture, top row keys, home row keys, bottom row keys, caps lock, space bar*	*Spreadsheet, column, row, cell, copy and paste, equals tool*	*Algorithm, code, code block, action, command, input, output, repeat, selection, timer, variable*	*Communication, email, compose, attachment, address book, password, CC, formatting*	*Simulation, real llife situation*	*Branching database, data, database, question*
E-safety	Health and well-being *Health, wellbeing, lifestyle, addictive, negative, positive* Online Reputation *Opinion, fact, validity, trustworthy*	Online bullying *Bullying, cyberbullying, report, block, Whisper button*	Self-image and identity *Avatar, profile, identity, online, internet, privacy, security, protect*	Online relationships *Interests, social media, Messaging app, friend request, communicate, emoji, acronym*	Managing online information *Search engine, autocomplete, internet, websites, online*	Privacy and security *Private, personal, stranger, dangerous, post/share (online) location, safety, secure/security* Copyright and ownership *Ownership, copyright, plagiarism, credit, author*

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Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 4	Coding	Spreadsheets	Animation	Logo	Effective searching	Hardware Investigators
Vocabulary	Algorithm, code, debugging, variable, timer, repeat function, selection, object, action, output, control, event	Spreadsheet, column, row, cell, copy and paste, equals tool, timer, chart, graph	Animation, frame, stop motion, onion skinning, video clip, flipbook	Logo, coding, on screen turtle, repeat function, algorithms, code	Internet, internet browser, website, search engine, search query, spoof website, Easter egg, search results page, autocomplete, reliability	Hardware, software, hard drive, monitor, speakers, keyboard, mouse, motherboard, CPU (Central Processing Unit), RAM (Random Access Memory, graphics card, network card
E-safety	Health and well-being *Health, wellbeing, screen time, devices, technology* Online Reputation *Opinion, fact, validity, trustworthy, positive, negative*	Online bullying *Bullying, cyberbullying, online, perception, trusted adult*	Self-image and identity *Identity, profile, social media, fake, false, true, trust, security, privacy*	Online relationships *Respectful, online, friends, relationships, positive, polite, responsible, post*	Managing online information *Fact, belief, opinion, search engine, autocomplete*	Privacy and security *Passwords, privacy, security, devices* Copyright and ownership *Ownership, copyright, plagiarism, internet, laws*

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Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 5	Word Processing skills	Spreadsheets	Coding	Game Creator	Databases	3D Modelling
Vocabulary	Touch typing, short cut keys, copy, paste, inset, text, image, format, text, clipart	Calculate, cell, column, formula(e), model, row, spreadsheet, sum, table	Algorithm, action, code, input, output, action, event, command, debugging, variable, timer, selection, sequence, repetition	Computer game, playability, animation, customise, screenshot, interactive, graphics, sound, movement, game quest	Avatar, binary tree (branching database), data, database, database fields, record, statistic, report, table (rows and columns)	CAD – Computer Aided Design, 3D, 2D, polygon, net view, points view, 3D view, template
E-safety	Health and well-being *Health, wellbeing, screen time, devices, technology* Online Reputation *Opinion, fact, validity, trustworthy, positive, negative*	Online bullying *Bullying, cyberbullying, online, perception, trusted adult, report, block, apps, capturing, content, screenshot*	Self-image and identity *Identity, profile, copy, alter, protect, security, privacy*	Online relationships *Restriction, social gaming, report, block, peer support, advice, respect*	Managing online information *Search engine, autocomplete, internet, websites, fact, belief, opinion, reliable*	Privacy and security *Linked devices, connected devices, content, content sharing, privacy, security, genuine, fake, online profile, identity* Copyright and ownership *Ownership, copyright, plagiarism, internet, laws*

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Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 6	Blogging	Coding	Spreadsheets	PowerPoint Presentations	Text Adventures	Networks
Vocabulary	*Blog, blog page, blog post, audience, icon*	*Algorithm, action, code, input, output, action, event, command, debugging, variable, timer, selection, sequence, repetition*	*Spreadsheet, column, row, cell, formulae, data, block, copy, paste*	*PowerPoint, presentation, slide, slideshow, audience, narration, animation, transition, hyperlink*	*Text based adventure, debug, sprite, function, code*	*Internet, World Wide Web, network, Local Area Network (LAN), Wide Area Network (WAN), wireless, router, network cables, modem*
E-safety	Health and well-being *Well-being, technology, devices, classification, content* Online Reputation *Opinion, fact, validity, trustworthy, positive, negative*	Online bullying *Bullying, cyberbullying, online, perception, trusted adult, report, block, apps, capturing, content, screenshot*	Self-image and identity *Gender, stereotype, influence, negative, media*	Online relationships *Content, flaming, live feed, streaming, platform, explicit*	Managing online information *Search engine, autocomplete, internet, websites, fact, belief, opinion, fake news, reliable*	Privacy and security *Linked devices, connected devices, content, content sharing, privacy, security, genuine, fake, online profile, identity* Copyright and ownership *Ownership, copyright, plagiarism, internet, laws*