Computing

Key vocabulary

A list of vocabulary that is covered across the Kapow Primary Computing scheme of work. Words in bold show new vocabulary as it is introduced.

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Unit	EYFS - Key Vocabulary
Using a computer	arrow, click, computer, computer safety, computer tower, cursor, drag, drop, keyboard, left click, letters, lock, log in, log out, lowercase, monitor, mouse, mouse control, move, numbers, paint, password, personal, protect, right click, secure, security, stamp, type, uppercase
All about instructions	adjective, algorithm, bend down, blindfold, debug, describe, duck, first, follow, give, hop, instructions, last, left, next, order, predict, prediction, right, run, second, sequence, shuffle, skip, stand still, step over, stop, straight on, third, tiptoe, timer, turn, two-part instructions, under, walk around
Exploring hardware	batteries, behind, blurred, blurry, buttons, camera, capture, clear, lick, computer, computer tower, crisp,digital camera, dial, digital clock, electricity, electric toothbrush, gallery, hard-drive, image, iPad, keyboard, keys, larger, lens, memory, mobile phones, monitor, motherboard, mouse, off, on, on top of, open, photograph, photographer, picture, point, power, pull, push, record, remote control, shoot, shut, smaller, speaker, still, system fan, tablets, technology, tinker, twist, under, USB stick, walkie-talkies
Programming Bee-Bots	algorithm, arrow, back, backwards, Bee-Bot, circle, debug, direction, directions, forward, instructions, left, program, right, route, sequence, straight on, turn
Introduction to data	altogether, bigger than, branch database, categorise, category, colour, collect, column, count, data, describe, divide, equal, graph, group, height, in total, least popular, length, less, more, most popular, pattern, pictogram, record, row, share, size, smaller than, sort, square, texture, thicker than, thinner than, weight

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Unit	Year 1 - Key Vocabulary
Computing systems and networks: Improving mouse skills	**account,** click, **clipart, computer,** drag, drag and drop, **duplicate**, fill, image, **layers,** left-click, log in, log off, mouse, password, predict, redo, resize, right click, screen (monitor), software, **tool,** username, undo
Programming 1: Algorithms unplugged	algorithm, artificial intelligence, bug, **chunks, code, computer,** debug, **decompose,** device, directions, **input**, instructions, **manageable, order, organise, output,** program, problem, **solution, specific, tasks, virtual assistant**
Skills showcase: Rocket to the moon	**annotate, cells, components, create, data,** debug, **designing, digital content, digital image, document, e-document, edit, editing software, editing program, evaluate, folder,** graphics, input, instructions, log in, photo, program, order, robot, **save**, sequence, **share, software, spreadsheet, table**
Programming 2: Bee-Bots	Option 1 and 2 - **command, instructions**, **error**, **program** Option 3 and 4 - algorithm, **Bee-Bot,** code, debug, **demonstration,** explain, **explore, filming, inputting,** instructions, **pause**, precise, **predict, program, review, test, tinker, video**
Creating media: Digital imagery	**background, blurred, camera,** clear, **crop,** delete, **device, digital camera**, **download,** drag and drop, **edit**, editing software, **filter, image, import, internet, keyword, online, photograph, resize, save as,** screen, **search engine,** sequence, software, **storage space**, **visual effects**
Data handling: Introduction to data	**bar chart, block graph, branching database, categorise, chart,** click and drag, **compare, count, data, data collection, data record, data representation,** edit, input, keyboard, line graph, mouse, information, label, **pictogram, pie chart, process,** record, resize, **sort,** table, **tally, values**
Online safety	app, appropriate, device, **digital footprint, feelings, going online,** in-person interactions, internet, kindness, offline activity, online activity, online experience, online interactions, online safety, **personal information, pop-up, posting online, report**, responsible digital citizen, **screen time, sharing online, stranger**, technology, trusted adult, unkind, website

Unit	Year 2 - Key Vocabulary
Computing systems and networks 1: What is a computer?	**battery,** buttons, camera, computer, **desktop**, device, **digital content, digital recorder, electricity,** input, invention, keyboard, l**aptop, monitor,** mouse, output, photograph, robot, **scanner, screen, system,** tablet, **technology,** till, **video,** wire
Programming 1: Algorithms and debugging	**abstraction**, algorithm, **artificial intelligence**, bug, clear, correct, data, debug, decompose, error, **key features, loop,** predict, **unnecessary**
Computing systems and networks 2: Word processing	**back button, backspace, bold, copy, copyright, cut,** delete, **forward button, highlight,** image, import, **italic,** keyboard, keyboard shortcut, **layout, navigate, paste, redo,** search, **space bar, text, text effects, touch typing, underline, undo, word processing**
Programming 2: Introduction to block coding MakeCode/ Scratch Jr	algorithm, bug, debug, programming, sequence Option 1 - as above, plus: **block coding,** evaluate, **micro:bit**, **MakeCode**, program) Option 2 - as above, plus: animation, **blocks**,, button, **CGI, computer code, fluid, icon, imitate,** instructions, loop, '**on tap**', repeat, **Scratch Jr** , sound recording)
Creating media: Stop motion	**Animation, animator, background, digital device, drawing, flipbook, frames, moving images, opinion skinning, still images** Option 1- as above,plus: decompose, **object, plan** Option 2- as above, plus: decompose, digital camera, **duration, focus,** import, object, plan, save, **upload** Option 3 - as above, plus: debug, effects, evaluate, **fluid, pen tool, static**
Data handling: International space station	algorithm , **astronaut, column,** data, digital content, **essential**, **experiment, Goldilocks zone, interactive map, International Space Station, input,** monitor, **row, satellite,** sensor, **space, spreadsheet, survival, temperature, thermometer.**
Online safety	**accepting, consent, denying permission, fake, giving permission, offline,** online, password, **permission,** personal information, **pop-up, pressure,** private information, real, **reliable,** sharing online, **source, trusted adult**

Unit	Year 3 - Key Vocabulary
Computing systems and networks 1: Networks	device, file, internet, network, network switch, packet data, router, server, the cloud, user, Wi-Fi, wired, wireless, wireless access point
Programming: *New* Scratch	Option 1 - **loop** Option 2 - algorithm, animation, **application**, code, code block, debug, decompose, game, interface, loop, predict, program, remixing code, repetition code, review, **Scratch,** sprite, tinker
Computing systems and networks 2: Emailing	**attachment, bcc (blind carbon copy) cc (carbon copy), compose,** content, **cyberbullying,** document, **domain, download, email, email account, email address, emoji,** emotions, **fake,** font, **genuine, hacker,** icons, **inbox,** information, **link,** log in, log out, **negative language,** password, personal information, **positive language, reply, responsible digital citizen, scammer, settings, send, sign in, spam email, subject bar, theme, tone, username, virus,** WiFi
Computing systems and networks 3: Journey inside a computer	algorithm, **assemble, CPU (central processing unit),** data, decompose, desktop, **disassemble, GPU (graphics processing unit), hard drive, HDD (hard disk drive),** infinite loop, input, keyboard, laptop, **memory, microphone,** monitor, mouse, output, photocopier, program, **QR code, RAM (random access memory), ROM (read only memory), storage,** tablet device, technology, **touchscreen, touchpad**
Creating media: Video trailers	application, camera angle, **clip,** edit,**film editing software, graphics,** import, key events,music, photo, plan, recording, **sound effects,** storyboard, **time code, trailer, transition,** video, **voiceover** Option 1 - as above, plus: **cross blur, crossfade, cross zoom,** desktop, digital device, **dip to black, directional wipe,** laptop Option 2 - as above, plus: **cross dissolve, fade to black/white , slide, wipe**)
Data handling: Comparison cards databases	categorise, category, chart, data, database, **Excel, fields , filter,** graph, information, **interpret, PDF, questionnaire,** record, representation, sort, spreadsheet
Online safety	accurate, **age restrictions, autocomplete, belief, charity,** content, digital device, **fact, fake news**, hoax, internet, internet of things, **opinion,** online emotions, organisation, permission, privacy settings, reliable, search, search engine, share, smart devices, **social media platforms**

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Unit	Year 4 - Key Vocabulary
Computing systems and networks: Collaborative learning	animations, **average**, bar chart, **collaboration**, comment, **contribution,** data, **edited,** email account, **format, freeze,** icon, images, **insert,** link, **multiple choice, numerical data,** pie chart, **presentations, resolved, reviewing comments,** share, **slides,** software, **spreadsheets, suggestions, survey, teamwork, themes, transitions**
Programming 1: *New* Further coding with Scratch	Option 1 - **condition, if statement, variable** Option 2 - code block, **conditional statement, coordinates,** decompose, **feature,** information, **negative number, orientation, position,** program, project, **script,** sprite, **stage,** tinker, **variable**
Creating media: Website design	**assessment, audience,** collaboration, content, contribution, create, **design, embed,** evaluate, features, **hyperlinks,** images, insert, online, plan, **progress,** review, **web page,** website, World Wide Web Google version add in: **checklist, Google Sites, hobby, homepage, published,** record, **style, subpage, tab,** theme Microsoft version add in: **design view,** information, **Microsoft Sway, stack, storyline view,** style, **transform, web browser**
Skills showcase: HTML	code, content, copyright, **CSS, end tag,** fake news, **hacker, heading, HTML, HTML tags, internet browser, paragraph, remixing, start tag,** text, unplugged, **URL, web page, web page elements**
Programming 2: Computational thinking	abstraction, algorithm, algorithm design, **computational thinking, debug,** decomposition, effectiveness, evaluate, instructions, **logical**, **pattern recognition, relevant, remixing,** sequence, unplugged
Data handling: Investigating weather	accurate, **climate zone, condensation, cylinder, degrees Celsius, evaporation, extreme weather, filming, forecast, heat sensor, lightning, measurement, pinwheel, presenter, rain,** satellite, **script, sensor data, solar panel,** temperature, thermometer, **tornado, weather, weather forecast, wind speed**
Online safety	**accuracy, ad, advantage, advertisement, belief, bot,** computer, disadvantage, **distraction,** fact, **hashtag, implications, in-app purchases, influencer,** opinion, program, **recommendation,** reliable, risk**, screen time, search results, snippets, sponsored, trustworthy**

Unit	Year 5 - Key Vocabulary
Computing systems and networks: Search engines	algorithm, **appropriate,** copyright, correct, **credit, data leak, deceive, fair,** fake, **inappropriate, incorrect, index,** information, **keywords,** network, **privacy, rank, real,** search engine, **TASK, web crawler,** website
Programming 1: Music	**adapt, basic command, beat, code,** debugging, decompose, error, evaluate, genre, input, loop, music, nested loop, output, **pitch,** plan, predict, program, program language, repeat, remixing, rhythm, Scratch, **soundtrack, soundtrack, tempo,** tinker
Data handling: Mars Rover 1	**8-bit binary, addition, ASCII, binary code, boolean, byte, CPU, data, data transmission, decimal numbers, discovery, distance, Hexadecimal,** input, **Mars Rover, the Moon,** numerical data, output, planet, **radio signal, RAM, scientist,** sequence, **signal, simulation,** space, **subtraction,**
Programming 2: BBC micro:bit	Option 1 - **conditional statement**, condition, variable Option 2 - algorithm, animation, **app,** blocks, **bluetooth,** code block, **conditional statement**, connection, create, debug, decompose, designing, desktop, device, download, images, input, instructions, laptop, **load,** loop, **Micro:bit, outputs, pairing, pedometer, polling,** predict, program, repetition, **reset, sabotage, scoreboard,** screen, **systematic,** tablet, **tinkering, USB,** variables, wifi, wireless, wires
Creating media: Stop motion	animation, **animator,** background, **character,** decomposition, design, edit, evaluate, **flip book, fluid movement, frames, model,** moving images, **still images,** storyboard, **thaumatrope, zoetrope** Option 1 add in: digital device, onion skinning, stop motion Option 2 add in: effects, photos, script
Skills showcase: Mars Rover 2	**3D,** algorithm, **binary image, CAD, compression,** CPU, data, drag and drop, **"Fetch, decode, execute", ID card,** input, **JPEG,** memory, **online community, operating system,** output, **pixels,** RAM, **responsible, RGB, ROM, safe**
Online safety	**accurate, advice, app, application, app permissions,** biography, **bullying, communication,** emojis, **health,** in-app purchases, information, **judgement, meme, mental health, mindfulness, negative contribution, online, online communication,** opinion, **organisation,** password, personal information, **positive contribution, real world, strong password, summarise, support,** trusted adult, well-being

Unit	Year 6 - Key Vocabulary
Computing systems and networks: Bletchley Park and the history of computers	**acrostic code, audio advert, brute force hacking, Caesar cipher, chip and PIN system, cipher, combination, date shift cipher,** discovery, invention, **Nth Letter Cipher,** password, **pigpen cipher, scrambled,** script, **secret,** secure, **technological advancement, trial and error**
Computing systems and networks: Exploring AI	**AI, AI generated image, AI generated text**, algorithm, applications, argument, authenticity, code, considerations, debate, ethical, fake, generate, HTML, image, implications, instructions, learn, modify, output, patterns, prompt, **rebuttal**, replace, refine, response, task, trained and webpage.
Data handling 1: Big data 1	algorithm, **barcode,** boolean, brand, **chip, commuter, contactless,** data, **encrypt, infrared, proximity,** QR code, **QR scanner,** radio waves, **RFID,** signal, spreadsheet, **systems analyst, transmission,** wireless
Programming: Introduction to Python	algorithm, code, command, design, import, **indentation,** input, instructions, loop, output, patterns, **random**, **remix,** repeat, **shape**
Data handling 2: Big data 2	Big Data, bluetooth, corrupted, data, **energy, GPS, improve,** infrared, **Internet of Things,** personal, privacy, QR codes, **revolution,** RFID, **SIM,** simulation, **Smart city, Smart school,** stop motion, **threat,** wifi, wireless
Skills showcase: Inventing a product	**abstraction,** adapt, **advert,** algorithm, bug, code, coding, debug, design, edit, **electronic,** evaluate, **image rights,** images, information, **input,** loop, output, photos, **product,** program, repetition, **screenshot, selection,** sequence, software, **structure,** variable, video, website
Online safety	**anonymity, antivirus, biometrics, block,** consent, digital footprint, **digital personality, financial information,** hacking, inappropriate, **malware,** online bullying, online reputation, password, personal information, **phishing,** privacy settings, private, **reliable source,** report, respect, **scammers, screengrab, screenshot,** secure, selfie, **software updates, two-factor authentication,** URL, username