Cycle A National Curriculum Links

Year	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
EYFS	**Online Safety** Book: Webster's Manners Use technology safely and respectfully. Know who to go to for help if something worrying happens when using technology. Talking about good and bad choices in real life.	**Online Safety** Book: Webster's Manners Use technology safely and respectfully. Know who to go to for help if something worrying happens when using technology. Talking about good and bad choices in real life.	**IT*** Using technology around the classroom to build on children's listening skills, curiosity, creativity and problem solving. Explore technology to develop a familiarity with equipment and vocabulary.	**IT*** Using technology around the classroom to build on children's listening skills, curiosity, creativity and problem solving. Explore technology to develop a familiarity with equipment and vocabulary.	Computer Science Easi-Cars Control technology and develop directional language. Share equipment and be respectful. Develop computational thinking.	Computer Science Easi Cars Control technology and develop directional language. Share equipment and be respectful. Develop computational thinking.
1/2	**Online Safety** Book: Chicken Clicking NC Link: Use technology safely and respectfully, keeping personal information private; identify where to go to for help and support when they have concerns about content or contact on the internet or other online technologies.	**Online Safety** Book: Chicken Clicking NC Link: Use technology safely and respectfully, keeping personal information private; identify where to go to for help and support when they have concerns about content or contact on the internet or other online technologies.	**IT*** iMovie NC Link: Use technology purposely to create, organise, store, manipulate and retrieve digital content.	**IT*** iMovie NC Link: Use technology purposely to create, organise, store, manipulate and retrieve digital content. Recognise common uses of IT beyond school.	**Computer Science** Bee-Bot NC Link: Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following clear instructions.	**Computer Science** Espresso Coding NC Link: Implement programs on a digital device, input precise and unambiguous instructions. Create and debug simple programs.
3/4	**Online Safety** Book: Troll Stinks NC Link: Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns.	**Online Safety** Book: Troll Stinks NC Link: Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns.	**IT*** Microsoft Word NC Link: Select, use and combine a variety of software (including internet services) to create content that accomplishes given goals, including collecting, analysing, evaluating and presenting information.	**IT*** NC Link: Understand computer networks including the internet; how they can provide multiple services, such as the world wide web.	**Computer Science** Espresso Coding NC Link: Use sequence, selection and repetition in programs. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.	**Computer Science** Lego Education SPIKE Essential NC Link: Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems. Detect and correct errors in algorithms and programs.
5/6	**Online Safety** Book: The Tech Tail NC Link: NC Link: Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns.	**Online Safety** Book: #Goldilocks NC Link: NC Link: Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns.	**IT*** Microsoft Office NC Link: Select, use and combine a variety of software (including internet services) to create content that accomplishes given goals., including collecting, analysing, evaluating and presenting data.	**IT*** Microsoft Office NC Link: Select, use and combine a variety of software (including internet services) to create content that accomplishes given goals., including collecting, analysing, evaluating and presenting data.	**Computer Science** Piper Kits NC Link: Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Use logical reasoning to detect and correct errors in algorithms and programs.	**Computer Science** Piper Kits NC Link: Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Use logical reasoning to detect and correct errors in algorithms and programs.

*IT = Information Technology

Cycle B National Curriculum Links

Year	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
EYFS	**Online Safety** Book: Webster's Manners Use technology safely and respectfully Know who to go to for help if something worrying happens when using technology. Talking about good and bad choices in real life.	**Online Safety** Book: Webster's Manners Use technology safely and respectfully Know who to go to for help if something worrying happens when using technology. Talking about good and bad choices in real life.	**IT*** Using technology around the classroom to build on children's listening skills, curiosity, creativity and problem solving. Explore technology to develop a familiarity with equipment and vocabulary.	**IT*** Using technology around the classroom to build on children's listening skills, curiosity, creativity and problem solving. Explore technology to develop a familiarity with equipment and vocabulary.	Computer Science Easi-Cars Control technology and develop directional language. Share equipment and be respectful. Develop computational thinking.	Computer Science Easi Cars Control technology and develop directional language. Share equipment and be respectful. Develop computational thinking.
1/2	**Online Safety** Book: Monkey Cow NC Link: Use technology safely and respectfully, keeping personal information private; identify where to go to for help and support when they have concerns about content or contact on the internet or other online technologies.	**Online Safety** Book: Monkey Cow NC Link: Use technology safely and respectfully, keeping personal information private; identify where to go to for help and support when they have concerns about content or contact on the internet or other online technologies.	**IT*** iPad and Popplet NC Link: Use technology purposely to create, organise, store, manipulate and retrieve digital content.	**IT*** iPad and Popplet NC Link: Use technology purposely to create, organise, store, manipulate and retrieve digital content. Recognise common uses of IT beyond school.	**Computer Science** Bee-Bot NC Link: Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following clear instructions.	**Computer Science** Espresso Coding NC Link: Implement programs on a digital device, input precise and unambiguous instructions. Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs.
3/4	**Online Safety** Book: Digiduck's Big Decision NC Link: Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns.	**Online Safety** Book: Digiduck's Big Decision NC Link: Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.	**IT*** Microsoft PowerPoint NC Link: Select, use and combine a variety of software (including internet services) to create content that accomplishes given goals, including collecting, analysing, evaluating and presenting information.	**IT*** NC Link: Understand computer networks including the internet; how they can provide multiple services, such as the world wide web.	**Computer Science** Espresso Coding NC Link: Use sequence, selection and repetition in programs.; work with variables and various forms of input and output. Design, write and debug programs that accomplish specific goals.	**Computer Science** Lego Education SPIKE Essential NC Link: Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems. Detect and correct errors in algorithms and programs.
5/6	**Online Safety** Book: Staying Safe Online NC Link: NC Link: Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns.	**Online Safety** Book: Staying Safe Online NC Link: Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.	**IT*** Microsoft Office NC Link: Select, use and combine a variety of software (including internet services) to design and create a range of programs, systems and content that accomplishes given goals, including collecting, analysing, evaluating and presenting data and information.	**IT*** Microsoft Office NC Link: Select, use and combine a variety of software (including internet services) to design and create a range of programs, systems and content that accomplishes given goals, including collecting, analysing, evaluating and presenting data and information.	**Computer Science** Espresso Coding NC Link: Design, write and debug programs that accomplish specific goals. Use sequence, selection and repetition in programs; work with variables and various forms of input and output. Use logical reasoning to detect and correct errors in algorithms and programs.	**Computer Science** Espresso Coding NC Link: Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Use logical reasoning to detect and correct errors in algorithms and programs.

*IT = Information Technology

Cycle A - Key Vocabulary

Year	Term 1 & 2	Term 3	Term 4	Term 5	Term 6
EYFS	**Online Safety** self image, identity, relationships, reputation, bullying, information, health, wellbeing, lifestyle, privacy, security, safe, trust, kind, careful, technology, online, device, choice, tell.	**IT*** tablet, iPad, computer, internet, phone, keyboard, mouse, interactive, interactive whiteboard, photograph, camera, technology, information, communicate.	**IT*** tablet, iPad, computer, internet, phone, keyboard, mouse, interactive, interactive whiteboard, photograph, camera, technology, information, communicate.	**Computer Science** share, respectful, direction, technology, control, commands, code, steps, program, run.	**Computer Science** share, respectful, direction, technology, control, commands, code, steps, program, run.
1/2	**Online Safety** self image, identity, relationships, reputation, bullying, information, health, wellbeing, lifestyle, privacy, security, age appropriate, website, on line safety, responsible, tell, trust, internet, adult, communicate, digital technology, search engine, password.	**IT*** edit, create, launch, application, text, image, software, rearrange, delete, undo, redo, clips, window, minimise, restore, screen, click, close, move, size, present, tools, clip trimming, clip splitting, storyboard, movie-making process, photos library, import, font, colour, cut, Apple, iPad, iOS.	**IT*** edit, create, launch, application, text, image, software, rearrange, delete, undo, redo, clips, window, minimise, restore, screen, click, close, move, size, present, tools, clip trimming, clip splitting, storyboard, movie-making process, photos library, import, font, colour, cut, Apple, iPad, iOS.	**Computer Science** Command, sequence, algorithm, program, run, steps, direction, control, code.	**Computer Science** *Year 1*: code, instruction, run, up, down, left, right, direction, object, action, click, programming, algorithm, instruction, order, sequence, repeat, program, action, start event, click event, start, stop, algorithm. *Year 2*: object, key, press, control, algorithm, input device, action, key press event, run, execute, direction, code, clockwise, anti-clockwise, pointer, pointer press, pointer release, mouse, device, program, button, debug.
3/4	**Online Safety** self image, identity, relationships, reputation, bullying, information, health, wellbeing, lifestyle, privacy, security, positive comments, choice, communicate, message, social media, gaming, avatar, email, password, cyberbullying, account, private, trust, tell, search, personal, cyberbullying, belief, opinion, fact, autocomplete, age restrictions, peer pressure, connected devices, internet.	**IT*** draw, object, shape, line, line colour, fill, colour, group, ungroup, font, size, text box, format, image, wrap text, plan, link, image, object, minimise, restore, size, move, split, create, organise, file, folder, close, save, exit, search, print, password, screenshot, snipping tool, shift, undo, redo, menu, dictionary, highlight, cursor, toolbar, spellcheck, word processing software (Word), productivity tools, retrieve, review, evaluate.	**IT*** server, network switch, wireless router, wireless devices, printer, wireless internet connection, wired internet connection, clients, workstations, local area network (LAN)	**Computer Science** *Year 3*: sequence, run, execute, algorithm, debug, timer, event, timer event, command, variable, instruction, repeat, program, condition, hit event, direction, input, debug, correct, error, collide, conditional statement, bug. *Year 4*: variable, score, start, click, time, alert, conditional event, value, hit event, negative, collide, change, cost, total, button, set, event, condition, debug, repetition, loop, action, efficient, nesting, repeat, if statement, always, direction, bug.	**Computer Science** code, build, interactive, solution, modify, evaluate, troubleshoot, problem solve, debug, bug, error, instructions, computational thinking, test, loop, engineering design process, prototype, create, sequence, collaborate, discuss, talk, investigate, hardware, solution, explore, program, (This is not an exclusive list of vocab for the *Lego Education Spike Essential* kits.)
5/6	**Online Safety** self image, identity, relationships, reputation, bullying, information, health, wellbeing, lifestyle, privacy, security, copyright, ownership, word wide web, communicate, message, social media, cyberbullying, plagiarism, account, private, public, age appropriate, website, internet, copied, modified, altered, context, online community, tell, trust, adult, summarise, information, judgement, choice, report, concern, risk, balanced, apps, games, content, payment, positive, negative, permissions, share, acceptable.	**IT* (Year 5)** Review vocab from Years 1-4 window, layout, text, font, format, heading, hyperlink, 2D shape, 3D shape, orbit, pan, zoom, eraser, dimension, measurement, guide, edit, software, productivity tools, hyperlink, internet, snipping tool, applications, data, importing, present, collect, analyse. **IT* (Year 6)** Review Vocab Years 1-5	**IT* (Year 5)** window, layout, text, font, format, heading, hyperlink, 2D shape, 3D shape, orbit, pan, zoom, eraser, dimension, measurement, guide, edit, software, productivity tools, hyperlink, internet, snipping tool, applications, data, importing, present, collect, analyse. **IT* (Year 6)** Review Vocab Years 1-5	**Computer Science** Review previous *Computer Science* vocab. Piper Kit, assemble, build, blueprint, collaborate, talk, discuss, evaluate, debug, execute, pin, solve, error, troubleshooting, bug, computational thinking, decompose, iterate, sequential, instructions, component, code, algorithm, engineering, electric currents, conductivity, circuit, signal, state. (This is not an exclusive list of vocab for the Piper Kit scheme of learning.)	**Computer Science** Piper Kit, assemble, build, blueprint, collaborate, talk, discuss, evaluate, debug, solve, error, troubleshooting, bug, computational thinking, decompose, iterate, sequential, instructions, component, code, algorithm, engineering, electric currents, conductivity, circuit, signal, state. (This is not an exclusive list of vocab for the Piper Kit scheme of learning.)

Cycle B - Key Vocabulary

Year	Term 1 & 2	Term 3	Term 4	Term 5	Term 6
EYFS	**Online Safety** self image, identity, relationships, reputation, bullying, information, health, wellbeing, lifestyle, privacy, security, safe, trust, kind, careful, technology, online, device, choice, tell.	**IT*** tablet, iPad, computer, internet, phone, keyboard, mouse, interactive, interactive whiteboard, photograph, camera, technology, information, communicate.	**IT*** tablet, iPad, computer, internet, phone, keyboard, mouse, interactive, interactive whiteboard, photograph, camera, technology, information, communicate.	**Computer Science** share, respectful, direction, technology, control, commands, code, steps, program, run.	**Computer Science** share, respectful, direction, technology, control, commands, code, steps, program, run.
1/2	**Online Safety** self image, identity, relationships, reputation, bullying, information, health, wellbeing, lifestyle, privacy, security, age appropriate, website, on line safety, responsible, tell, trust, internet, adult, communicate, digital technology, search engine, password, permission, peer pressure, risk, email, online gaming, consent, keywords, navigate, imaginary, true, real, voice activation, account, device.	**IT*** Popplet, create, colour-code, drag, drop, reorganise, reshape, resize, image, video, text, draw, capture, organise, collaborate, sort, software, present, information, retrieve, internet, application, min map, ideas, share, font, size, colour, restore, undo, redo.	**IT*** Popplet, create, colour-code, drag, drop, reorganise, reshape, resize, image, video, text, draw, capture, organise, collaborate, sort, software, present, information, retrieve, internet, application, min map, ideas, share, font, size, colour, restore, undo, redo.	**Computer Science** Command, sequence, algorithm, program, run, steps, direction, control, code.	**Computer Science** *Year 1*: code, instruction, run, up, down, left, right, direction, object, action, click, programming, algorithm, instruction, order, sequence, repeat, program, action, start event, click event, start, stop, algorithm, bug. *Year 2*: object, key, press, control, algorithm, input device, action, key press event, run, execute, direction, code, clockwise, anti-clockwise, pointer, pointer press, pointer release, mouse, device, program, button, debug, bug.
3/4	**Online Safety** self image, identity, relationships, reputation, bullying, information, health, wellbeing, lifestyle, privacy, security, positive comments, choice, communicate, message, social media, gaming, avatar, email, password, cyberbullying, account, private, trust, tell, search, personal, cyberbullying, belief, opinion, fact, autocomplete, age restrictions, peer pressure, connected devices, internet, perception, livestreaming, create, copy, share, image, video, text, chat, advertising, in-app purchases, pop-ups, opinion, belief, sharing, positive, negative, strategy, consent.	**IT*** draw, object, shape, line, line colour, fill, colour, group, ungroup, font, size, text box, format, image, wrap text, plan, link, image, object, minimise, restore, size, move, split, create, organise, file, folder, close, save, exit, search, print, password, screenshot, snipping tool, shift, undo, redo, menu, dictionary, highlight, cursor, toolbar, spellcheck, presentation program (PowerPoint), productivity tools, retrieve, review, evaluate.	**IT*** filter, Google, Microsoft Edge, Safari, World Wide Web, internet, search engine, image, keyboard, email, subject, address, communicate, sender, safe, secure, social media, server, network switch, wireless router, wireless devices, printer, wireless internet connection, wired internet connection, clients, workstations, local area network (LAN).	**Computer Science** *Year 3*: sequence, run, execute, algorithm, debug, timer, event, timer event, command, variable, instruction, repeat, program, condition, hit event, direction, input, debug, correct, error, collide, conditional statement, bug. *Year 4*: variable, score, start, click, time, alert, conditional event, value, hit event, negative, collide, change, cost, total, button, set, event, condition, debug, repetition, loop, action, efficient, nesting, repeat, if statement, always, direction, bug.	**Computer Science** code, build, interactive, solution, modify, evaluate, troubleshoot, problem solve, de-bug, bug, error, instructions, computational thinking, test, loop, engineering design process, prototype, create, sequence, collaborate, discuss, talk, investigate, hardware, solution, explore, program. (This is not an exclusive list of vocab for the *Lego Education Spike Essential* kits.)
5/6	**Online Safety** self image, identity, relationships, reputation, bullying, information, health, wellbeing, lifestyle, privacy, security, copyright, ownership, word wide web, communicate, message, social media, cyberbullying, plagiarism, account, private, public, age appropriate, website, internet, copied, modified, altered, context, online community, tell, trust, adult, summarise, information, judgement, choice, report, concern, risk, balanced, apps, games, content, payment, positive, negative, permissions, share, acceptable, references, source, software, data, settings, auto updates, secure, store, illegal, impact, strategy. PEGI, BBFC, [arental warnings, opinion, fact, screen-grab, URL, profile, anonymity, digital personality, consequences, challenge, reject, inap-	**IT* (Year 5)** Review vocab from Years 1-4 window, layout, text, font, format, heading, hyperlink, 2D shape, 3D shape, orbit, pan, zoom, eraser, dimension, measurement, guide, edit, software, productivity tools, hyperlink, internet, snipping tool, applications, data, importing, present, collect, analyse. **IT* (Year 6)** Review Vocab Years 1-5	**IT* (Year5)** window, layout, text, font, format, heading, hyperlink, 2D shape, 3D shape, orbit, pan, zoom, eraser, dimension, measurement, guide, edit, software, productivity tools, hyperlink, internet, snipping tool, applications, data, importing, present, collect, analyse. **IT* (Year 6)** Review Vocab Years 1-5	**Computer Science** *Review Vocab Years 1-4* *Level 5:* delay, output, variable, object, action, speed, acceleration, decelerate, debug, angle, speed, simulation, heading, coordinate, negative numbers, decomposition, y-axis, x-axis, position, conditional event, friction, overlap, if statement, generate, random, degrees, condition, position, value, random number, range, heading, hit, input, output, debug, bug.	**Computer Science** *Level 6:* input, variable, property, background, grid, pixel, block, convert, value, alignment, unit, scale, condition, event, random, loop, if statement, discount, calculate, total, percentage, Boolean, analogue, digital, numbers, property, parameter, objects, location, friction, direction, angle, heading, x-coordinate, y-coordinate, speed, simulation, decomposition, debug, bug.