Purpose of study

	Year 1 Learning				
K	 understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions (Unit 5 Programming A – Moving a robot) recognise common uses of information technology beyond school (Unit 1 Computing systems and networks - technology all around us; Unit 5 Programming A – Moving a robot) know how to use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns 				
	about content or contact on the internet or other online technologies. (Unit 1 Computing systems and networks - technology all around us; Unit 3 Creating media – digital writing; Unit 4 Data and information – grouping data)				
S	 create and debug simple programs (Unit 5 Programming A – Moving a robot) use logical reasoning to predict the behaviour of simple programs (Unit 5 Programming A – Moving a robot) use technology purposefully to create, organise, store, manipulate and retrieve digital content (Unit 1 Computing systems and networks - technology all around us; Unit 3 Creating media – digital writing; Unit 4 Data and information – grouping data) use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. (Unit 1 Computing systems and networks - technology all around us; Unit 3 Creating media – digital writing; Unit 4 Data and information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. (Unit 1 Computing systems and networks - technology all around us; Unit 3 Creating media – digital writing; Unit 4 Data and information – grouping data) 				
V	Unit 1 - Technology, computer, mouse/trackpad, keyboard, screen, click, drag, draw, click, double-click, input device, shift, space bar, capital letter, full stop, safely, responsibly Unit 3 – word processor, keys, letters, Microsoft Word, numbers, backspace, cursor, toolbar, bold, italic, underline, font, undo Unit 4 - object, label, group, search, image, property, colour, size, shape, data set, value, more, less, most, fewest, the same Unit 5 – forwards, backwards, turn, clear, go, commands, instructions, directions, left, right, plan, algorithm, program, route				
E					

Purpose of study

К	understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous		
	instructions (Unit 5 – Programming A – robot algorithms)		
	 recognise common uses of information technology beyond school (Unit 1 Computing systems and networks – IT around us) 		
	know how to use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns		
	about content or contact on the internet or other online technologies. (Unit 1 Computing systems and networks – IT around us; Unit 4 Data and information – pictograms; Unit 5 – Programming A – robot algorithms)		
S	 create and debug simple programs (Unit 5 – Programming A – robot algorithms) use logical reasoning to predict the behaviour of simple programs (Unit 5 Programming A – robot algorithms) use technology purposefully to create, organise, store, manipulate and retrieve digital content (Unit 1 Computing systems and networks – IT around us; Unit 3 Creating media – making music; Unit 4 Data and information – Pictograms) use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. (Unit 1 Computing systems and networks – IT around us; Unit 4 Data and information – Pictograms; (Unit 5 – Programming A – robot algorithms) 		
	Unit 1 – Information technology (IT) computer barcado scappor/scap		
V	Unit 1 – Music pattern rhythm pulse pitch tempo notes instrument create emotion open edit		
	Unit 4 – organise, data, object, tally chart, total, votes, pictogram, enter, compare, less, most, least, more common, less common, attribute, group, block diagram, sharing Unit 5 – instruction, sequence, clear, unambiguous, algorithm, program		
-			
E			

Purpose of study

	Year 3 Learning					
К	understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration					
	 know how to use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (Unit 4 Data and information – Branching databases) 					
S	 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts (Unit 6 Programming B – events and actions) use sequence, selection, and repetition in programs; work with variables and various forms of input and output (Unit 6 Programming B – events and actions) use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs (Unit 6 Programming B – events and actions) use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs (Unit 6 Programming B – events and actions) use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content (Unit 3 Creating media – Desktop publishing) select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information (Unit 1 Computing systems and networks – Connecting computers; Unit 3 Creating media – Desktop publishing; Unit 4 Data and information – Branching databases; Unit 6 Programming B – events and actions) use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (Unit 4 Data and information – Branching databases) 					
V	Unit 1 – digital device, input, output, process, program, connection, network, network switch, server, wireless access point (WAP) Unit 3 – text, images, advantages, disadvantages, communicate, font, font style, template, landscape, portrait, orientation, layout, content, placeholder, desktop publishing, copy, paste Unit 4 – attribute, value, questions, table, object, branching databases, database, equal, even, separate, structure, compare, order, organise, selecting, information, decision tree Unit 6 – motion, event, sprite, algorithm, logic, move, resize, extension block, pen up, set up, design, action, debugging, errors, design, code, events					
E						

Purpose of study

	Year 4 Learning				
К	 understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and 				
	collaboration (Unit 1 Computing systems and networks – The internet)				
	know how to use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and				
	contact. (Unit 1 Computing systems and networks – The internet; Unit 2 Creating media – Audio editing; Unit 3 Creating media – Photo editing)				
S	 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts (Unit 6 Programming B – repetition in games) 				
	use sequence, selection, and repetition in programs; work with variables and various forms of input and output (Unit 6 Programming B – repetition in games)				
	use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs (Unit 6 Programming B – repetition in games)				
	use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content (Unit 1 Computing systems and networks – The internet; Unit 2 Creating media – Audio editing; Unit 3 Creating media – Photo editing)				
	select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information (Unit 1 Computing systems and networks – The internet; Unit 2 Creating media – Audio editing; Unit 3 Creating media – Photo editing)				
	use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (Unit 1 Computing systems and networks – The internet; Unit 2 Creating media – Audio editing; Unit 3 Creating media – Photo editing)				
V	Unit 1 – internet, network, router, network security, network switch, server, wireless access point (WAP), website, web page, web address, routing, route tracing, browser, World Wide Web, content, links, files, use, download, sharing, ownership, permission, information, accurate, honest, adverts				
	Unit 2 – audio, record, playback, microphone, speaker, headphones, input, output, sound, start, pause, stop, podcast, save, file, edit, selection, open, save, file, mixing, time shift, export, MP3, feedback Unit 3 – image, edit, arrange, select, digital, crop, undo, save, search, copyright, pixels, rotate, flip, adjustments, effects, colours, hue/saturation, sepia, version, illustrator, retouch, clone, recolour, magic wand, adjust, sharpen, brighten, fake, real, composite, cut, copy, paste, alter, background, foreground, publication, elements, original, font styles, shapes, border, layer Unit 6 – scratch, programming, sprite, blocks, code, loop, repeat, value, forever, infinite loop, count-controller loop, costume, repetition, forever, animate, event block, duplicate, modify, design, algorithm, debug, refine, evaluate				
E					

Purpose of study

	Year 5 Learning				
К	 understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration (Unit 1 Computing systems and networks – Sharing information) 				
	know how to use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (Unit 1 Computing systems and networks – Sharing information; Unit 3 Creating media – Video editing)				
S	 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts (Unit 1 Computing systems and networks - Sharing information; Unit 6 - Programming B - selection in quizzes) use sequence, selection, and repetition in programs; work with variables and various forms of input and output (Unit 1 Computing systems and networks - Sharing information; Unit 6 - Programming B - selection in quizzes) use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs Unit 6 - Programming B - selection in quizzes) use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content (Unit 3 Creating media - Video editing; Unit 4 - Data and information - flat-file databases) select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals including collecting, analysing, evaluating and presenting data and information (Unit 1 Computing systems and networks - Sharing information; Unit 3 Creating media - Video editing; Unit 3 Creating media - Video editing; Unit 4 - Data and information collecting, analysing, evaluating and presenting data and information (Unit 1 Computing systems and networks - Sharing information; Unit 3 Creating media - Video editing; Unit 4 - Data and information - flat-file databases) 				
	use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (Unit 1 Computing systems and networks – Sharing information; Unit 3 Creating media – Video editing)				
V	Unit 1 – system, connection, digital, input, process, output, protocol, address, packet, chat, explore, slide deck, reuse, remix, collaboration Unit 3 – video, audio, recording, storyboard, script, soundtrack, dialogue, capture, zoom, storage, digital, tape, AV (audio-visual), save, videographer, zoom, pan, tilt, angle, lighting, setting, YouTuber, content, light, sound, camera, colour, export, computer, split, trim/clip, edit, titles, end credits, timeline, transitions, soundtrack, content, retake/reshoot, special effects, export Unit 4 – database, data, information, record, field, sort, order, group, search, value, criteria, graph, chart, axis, compare, filter, presentation Unit 6 – selection, condition, true, false, count-controlled loop, outcomes, conditional statement, algorithm, program, debug, question, answer, task, design, input, implement, test, run, share				
E					

Purpose of study

	Year 6 Learning					
К	K • understand computer networks including the internet collaboration (Unit 1 Computing systems and net	t; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and works – Communication)				
	know how to use technology safely, respectfully and contact. (Unit 1 Computing systems and network)	I responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and s – Communication)				
S	 design, write and debug programs that accomplish (Unit 5 Programming A – Variables in games) use sequence, selection, and repetition in programs 	specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts ; work with variables and various forms of input and output (Unit 5 Programming A – Variables in games)				
	 use logical reasoning to explain how some simple a use search technologies effectively, appreciate how Communication) 	Igorithms work and to detect and correct errors in algorithms and programs (Unit 5 Programming A – Variables in games) results are selected and ranked, and be discerning in evaluating digital content (Unit 1 Computing systems and networks –				
	select, use and combine a variety of software (inclu accomplish given goals, including collecting, analys Spreadsheets; Unit 5 Programming A – Variable	ding internet services) on a range of digital devices to design and create a range of programs, systems and content that ing, evaluating and presenting data and information (Unit 2 Creating media – 3D modelling; Unit 4 Data and information – s in games)				
	 use technology safely, respectfully and responsibly Computing systems and networks – Communic 	recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (Unit 1 ation)				
V	V Unit 1 – search, search engine, refine, index, crawler, bot, ra Unit 2 – 2D, 3D, 3D object, 3D space, view, resize, colour, lift Unit 3 – website, web page, browser, media, Hypertext Mark hyperlink, subpage, external link, embed Unit 4 – spreadsheet, data, data heading, data set, cells, colu sigma, propose, question, organised, graph, chart, results, co Unit 5 – variable, change, name, value, set, design, event, alg	king, links, content creator, communication, internet, public, private, one-way, two-way, one-to-one, one-to-many, SMS, email rotate, position, duplicate, select, dimensions, placeholder, hole, group, ungroup, design, modify, evaluate, improve up Language (HTML), logo, layout, header, copyright, fair use, home page, preview, evaluate, device, breadcrumb trail, navigation, mns and rows, data item, object, format, common attribute, formula, calculation, input, output, cell reference, operation, range, duplicate, mparison, software, tools orithm, code, task, program, project, test, debug, improve, evaluate, share				
Ε	E					