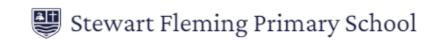
Predominant Area of Computing*							
	Computer		Information		Digital		
***	Science		Technology		Literacy		
*Most units will include aspects of all strands.							

## **Computing Progression of Skills**



S	Mouse and Trackpad Skills	Keyboard Skills	Drawing skills	Robots	Sounds		Photography
EYFS	Technology Around Us	Hardware Safety and Privacy Q		Quizzes	izzes Using P with an Login		
	Computing systems and networks Digital literacy	Creating media Information technology	Data and information Information technolog	ğ			Vocabulary
Year 1	<ul> <li>I can recognise and name a range of digital devices, e.g. laptop, phone, games console.</li> <li>I can log on to the school computer / unlock the school tablet with support.</li> <li>I can identify the basic parts of a computer, e.g. mouse, keyboard, screen.</li> <li>I can use a suitable access device (mouse, keyboard, touchscreen, switch).</li> <li>I can explain why we use passwords and recognise examples of personal information</li> <li>I know who to tell if concerned about contents.</li> </ul>	<ul> <li>I can combine media with support to present information, e.g. text and images.</li> <li>I can type text using a keyboard</li> </ul>	<ul> <li>I can find objects with similar proper</li> <li>I can answer questions about groups</li> </ul>	of  I can predict the outcome of or program.  answer  I can explain what an algorit  I can debug an error in a sin	f a simple algorithm thm is and create one	draw, double-click, Inp. computer, technology  paint program, tool, p. tool  Forwards, backwards, program  Word processor, back  ScratchJr, Bee-Bot, co	turn, clear, go, commands Instructions, algorithm, space, toolbar, bold, italic, underline, mmand, sprite, compare, programming, , Block, n, background, delete, reset, algorithm, predict,
Year 2	<ul> <li>I can explain how IT is used at home</li> <li>I can explain how IT is used in different places</li> <li>I can use a simple password to log onto the computer or a website.</li> <li>I can identify rules for acceptable use of technology in school.</li> <li>I know what personal information is and the need to keep it private.</li> <li>I can recognise that some information found online may not be true.</li> </ul>		I can modify simple charts/pictogram	program with multiple steps simple  I can identify and correct er algorithm or program, and r debugging.  I can explain what an algorit nart or  I can plan out a program by algorithm, and evaluate its s	<ul> <li>Device, camera, photograph, capture, in a given that or program, and recognise the term ging.</li> <li>Device, camera, photograph, capture, in a given Framing, focal point, subject matter, find Natural lighting, artificial lighting,</li> <li>Instruction, sequence, clear, unambiguation</li> </ul>		ubject matter, field of view, format, compose cial lighting, clear, unambiguous, algorithm, program program, run, program, start Sprite, design, modify, tally chart, votes,
Year 3	<ul> <li>I can describe what a computer is (input &gt; process &gt; output).</li> <li>I can recognise that school computers are connected.</li> <li>Keeping password safe</li> <li>When not to share personal info</li> <li>Games/films have age ratings</li> </ul>	<ul> <li>I can present ideas and information by combining media independently, e.g. text and images.</li> <li>I can design and create simple digital content for a purpose/audience, e.g. poster.</li> <li>I can edit digital content to improve it, e.g. resize text.</li> </ul>	I can identify the features of a good	Use a forever loop in a prog	ms containing count- gram to keep text-based program	network switch, serve  Scratch, programming backdrop Sequence, e algorithm, bug, debug  Branching database, deven, separate  Text, images Landscap	utput, process Program Connection, network, r, wireless access point (WAP) g, blocks, commands, code, sprite, costume, stage, vent, task, design, code, run the code Design, atabase, attribute, value, questions, objects, equal, pe, portrait, orientation, placeholder, template algorithm, logic Move, resize, extension block,

	Com Scie	t Area of Computing*  Inputer Information Digital Literacy  will include aspects of all strands.	] 	puting Progression of Sk	<u>xills</u>	Stewart Fleming Primary School
Year 4	•	Remember and use an individual password.  Recognise what kinds of websites are trustworthy sources of information.  Recognise the benefits and risks of different apps and websites.  Recognise that the media can portray groups of people differently.  Can rate a game or film they have made and explain their rating	<ul> <li>Collect, organise and present information using a range of media.</li> <li>Design, create and edit digital content for a specific purpose</li> <li>Identify the features of a good piece of digital content and apply these in own design.</li> <li>Know where to find copyrightfree content, e.g. creative images.</li> <li>Collaborate with peers using online tools</li> </ul>	<ul> <li>Draw conclusions from information stored in a database, chart or table.</li> <li>Design a questionnaire and collect a range of data on a theme.</li> <li>Choose appropriate formats to present data to convey information</li> </ul>	<ul> <li>Create a program using a range of events/inputs to control what happens.</li> <li>Explain when to use forever loops and count-controlled loops, and use them in programs.</li> <li>Recognise selection in a program or algorithm.</li> <li>Use selection in algorithms in programs e.g. ifthen</li> <li>Design a program for a purpose.</li> <li>Recognise common mistakes in programs and how to correct them.</li> </ul>	<ul> <li>Internet, network, router, network security Network switch, server, wireless access point (WAP), router, route tracing, browser content, download, sharing, ownership, permission</li> <li>Program, turtle, commands, code snippet Algorithm, design, debug, Logo commands, Pattern, repeat, repetition, count-controlled loop, algorithm,</li> <li>Data, table (layout) Input device, sensor, data logger, data point, interval, analyse, data set, import, export</li> <li>Scratch, programming, sprite, blocks, code, loop, repeat, value, Block, forever, infinite loop, count-controlled loop, costume design, algorithm, duplicate, debug, refine, evaluate</li> </ul>
Year 5	•	I can explain the difference between the internet and the World Wide Web; and between a search engine and a web browser I can perform a complex search for information  Know where to find copyright free images and audio, and why this is important. —  Critically evaluate websites for reliability of information and authenticity.	<ul> <li>Use different drawing tools to create images</li> <li>Create images by layering and duplicating images to create more complex pieces of work</li> <li>Evaluate and improve their own designs</li> </ul>	<ul> <li>I know the difference between data and information</li> <li>I can perform a search to answer questions about data</li> <li>I can create graphs and charts from data</li> </ul>	<ul> <li>Name a range of sensors in physical systems</li> <li>Predict what will happen in a program or algorithm when the input changes</li> <li>Use two-way selection i.e. if thenelse</li> <li>Recognise variables in a program</li> <li>Create programs including 'repeat until' loops.</li> <li>Create and use simple variables, e.g. to keep score.</li> <li>Create an algorithm for a physical system (with sensor)</li> </ul>	<ul> <li>System, connection, digital, input, process, output Protocol, address, packet</li> <li>Microcontroller, Crumble controller, components, LED, Sparkle, program, repetition, infinite loop, selection, controlled loop, Task, design, selection, condition, action, microcontroller, algorithm,</li> <li>Database, data, information, record, field, sort, order, group graph, chart, axis, compare, filter</li> <li>Vector, drawing tools, shapes, object, icons, toolbar organise, zoom, select, rotate, object, alignment grid, resize, handles, consistency,</li> </ul>
Year 6	•	Explain what makes a strong password and why this is important at school and in the wider world.  Explain how algorithms are used to track online activities with a view to targeting advertising and information.  Know that there are laws around the purchase of games; the production, sending and storage of images; what is written online; and around online gambling	<ul> <li>Select, combine and remix a range of media to create original content.</li> <li>Consider all steps of the design process when creating content (e.g. identify problem, plan, create, evaluate, share.)</li> <li>Identify the most effective tools to present information for a specific purpose.</li> </ul>	<ul> <li>Recognise what a spreadsheet is and what it is used for.</li> <li>Use simple formulae in a spreadsheet to find out information from a set of data.</li> <li>Collect data for a purpose and plan out a spreadsheet to present it effectively, using relevant formulae.</li> <li>Produce graphs from data in a spreadsheet to answer a question.</li> <li>Analyse and evaluate data and information</li> </ul>	<ul> <li>Design and program a system that uses sensors.</li> <li>Recognise and use procedures (sub-routines) in programs.</li> <li>Plan out a program in detail, including task, algorithm, code and execution level.</li> <li>Use nested selection statements in a program</li> <li>Combine a variable with relational operators (&lt; = &gt;) to determine when a program changes</li> <li>Recognise key concepts (sequence, selection, repetition and variables)</li> </ul>	<ul> <li>refine index, crawler, bot, search engine, Ranking, Website, web page, browser, media, Hypertext Markup Language (HTML) Web page, website, logo, layout, header, media, purpose Copyright, fair use, hyperlink,</li> <li>Variable, name, value, set, change         Task, algorithm, design, artwork, program, project, code, test, debug     </li> <li>Spreadsheet, data, data heading, data set, cells, columns and rows, Formula, calculation, input, output. cells, cell reference</li> <li>2D, 3D, Rotate, position, select, duplicate Dimensions, placeholder,</li> <li>Micro:bit, MakeCode, input, process, output, flashing, USB Selection, condition, if then else, variable, random accelerometer</li> </ul>

in a spreadsheet, chart or database.