



## Computing Curriculum Overview

Year	Subject specific Vocabulary	'The Greats'	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	log in, password, username, save, print, open, new algorithm, instructions, debug, input, output, coding, space arrow keys  create, paint, design, open, close, save, change, colour, font  text, open, close, return, space bar, enter, print, save	Walt Disney	<b>Programing-Beebot</b>  -understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions - create and debug simple programs - use logical reasoning to predict the behaviour of simple programs  Look at household technology- -recognise common uses of information technology beyond school	<b>Graphics and design-Paint</b>  -Ipads to take pictures  use technology purposefully to create, organise, store, manipulate and retrieve digital content	<b>Word-</b> -put text on screen -use upper and lower case -use the space bar use the Return key use the Shift key to make a capital letter -use word lists to enter text -with support, print their work using the Print icon  use technology purposefully to create, organise, store, manipulate and retrieve digital content	<b>Presentation-</b>  use technology purposefully to create, organise, store, manipulate and retrieve digital content	<b>Programming-Scratch Junior</b>  understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions - create and debug simple programs -use logical reasoning to predict the behaviour of simple programs	<b>Word</b>  use technology purposefully to create, organise, store, manipulate and retrieve digital content



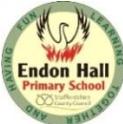
Year 2	<p>coding, instructions, block, design, input, output, control, debug, algorithm, logic, program, object, action, event  Right turn, Left turn, degrees, angle  manipulate, present, information, clipart, picture, digital, content, data, table  Copy, Paste, Underlined, Bold, Highlight, Font, screen shot, snipping tool, folders, slides, searching, save as, save, file, open, insert.  Copy, Paste, Underlined, Bold, Highlight, Font, screen shot, snipping tool, folders, slides, searching, save as, save, file, open, insert.</p>	Nick Park	<p><b>Word</b> -know that text can be saved and retrieved -change the font style -change the font size -change the font colour -print their work using the Print icon -use the cursor (arrow) keys for simple on screen editing -with support, import graphics and add text with support  use technology purposefully to create, organise, store, manipulate and retrieve digital content</p>	<p><b>Graphics and design-Paint</b> -create work from other artists  use technology purposefully to create, organise, store, manipulate and retrieve digital content</p>	<p><b>Programming-Logo -Basic shapes</b>  understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions - create and debug simple programs -use logical reasoning to predict the behaviour of simple programs</p>	<p><b>Presentation- Powerpoint -Basic skills</b>  use technology purposefully to create, organise, store, manipulate and retrieve digital content</p>	<p><b>Programming Scratch</b> Beginning with basics  understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions - create and debug simple programs -use logical reasoning to predict the behaviour of simple programs</p>	<p><b>Word</b>  use technology purposefully to create, organise, store, manipulate and retrieve digital content</p>
--------	---	-----------	---	--	--	---	---	---



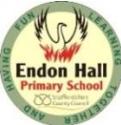
Year 3	search, refine, global, communicate, digital footprint, personal data, secure, password, spoof, website, PEGI, appropriate, content, cyber, screenshot, report  Format, repeat, Algorithm, Programming, debugging, programme, sequence, variable, repetition, selection, coding, input, output, animation, sequence  bullet points, numbering, word box, screen shot, snipping tool, Touch Typing, folders, slides, searching, save, save as, file, open, insert	Larry Page	<b>Word</b> -select text and change the font style, size and colour -select text and use Bold and Underline icons -use the scroll bars to view different parts of the document justify / align text -import graphics and add text -print using the menu -use print preview  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	<b>Graphics and design-Paint</b> -New tools -using and manipulating objects  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	<b>Programming-Logo</b> -Pen up/pen down  -design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts  -use sequence, selection, and repetition in programs; work with variables and various forms of input and output - use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	<b>Presentation-Powerpoint</b> Format and design slides  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	<b>Programming-more complex scripts</b>  -design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts -use sequence, selection, and repetition in programs; work with variables and various forms of input and output - use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	Internet research and communication -Search results  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 -use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
--------	--	------------	--	---	---	--	---	--



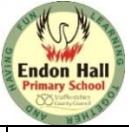
Year 4	Find, search, replace, landscape, portrait, zoom, insert, graphic  screen shot, snipping tool, Touch Typing, searching, print  Programming, debugging, programme, sequence, repetition, selection, variable, coding, input, output, animation  Internet, search, email, send, new, recipient, address, world wide web, communication, collaboration, select  Collecting, presenting, evaluating, analysing	Bill gates	Word import graphics (position and align -use the spell checker -use Find, search and replace if appropriate -use Page Setup to choose Portrait or Landscape page as appropriate -learn how to insert and use a simple table -use the Zoom menu to view the whole page	Graphics and design- Animation  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	Programming Logo  -Repeat, pen colour  -design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts  -use sequence, selection, and repetition in programs; work with variables and various forms of input and output  - use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	Presentation-PowerPoint- Inserting web links  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	Programming-Scratch  -Questions and quizzes  -design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts -use sequence, selection, and repetition in programs; work with variables and various forms of input and output - use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	Internet research and communication  -email -Blog??  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 - use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
--------	--	------------	---	--	---	--	---	---



Year 5	search, refine, global, communicate, digital footprint, email, personal data, secure, password, spoof, website, PEGI, appropriate, content, cyber, screenshot, report, permission, responsibility  type, speed, skill, home, top, bottom, space, key, accuracy  Collecting, presenting, evaluating, analysing  bullet points, numbering, word box, screen shot, snipping tool, Touch Typing, folders, slides, searching, save, save as, file, open, insert.	Steve Jobs	<b>Word</b> -use and practise their word processing skills in a range of contexts  <b>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</b>	<b>Graphics and design</b> -Sketch up  <b>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</b>	<b>Radio stations</b> -design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts  <b>-use sequence, selection, and repetition in programs; work with variables and various forms of input and output</b>  <b>- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</b>	<b>Presentation-PowerPoint</b> -Practise skills  <b>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</b>	<b>Programming Scratch-</b> <b>Create own video game</b>  <b>-design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</b> <b>-use sequence, selection, and repetition in programs; work with variables and various forms of input and output</b> <b>- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</b>	Internet research and web design -design own web page  <b>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</b>
--------	---	------------	---	---	---	---	--	---



Year 6	<p>coding, instructions, block, design, input, output, control, debug, algorithm, logic, program, object, action, event, control, simulate, variable, sequence, if/else, launch, properties, animate, 3- dimensional,</p> <p>communication, method, safe, appropriate, safe  Collecting, presenting, evaluating, analysing, cell, input, row, column, data, spreadsheet, more, less, equals, pie chart, bar graph, count, convert, formula, graph, investigate, data, field</p>	Mark Zuckerberg	<p><b>Word</b> -use and practise their word processing skills in a range of contexts  -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,</p>	<p><b>Graphics and design</b> -Stop Motion  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,</p>	<p><b>Programming-Kodu</b>  -design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts  -use sequence, selection, and repetition in programs; work with variables and various forms of input and output</p>	<p><b>Presentation-PowerPoint</b> -Practise skills  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,</p>	<p><b>Programming-Scratch Animated stories</b>  -design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts -use sequence, selection, and repetition in programs; work with variables and various forms of input and output - use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</p>	<p><b>Spreadsheets-</b>  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</p>



			evaluating and presenting data and information	analysing, evaluating and presenting data and information	forms of input and output - use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	evaluating and presenting data and information		
--	--	--	--	---	---	--	--	--