

West Norfolk Academies Trust (Primary) - Curriculum Map - Computing 22-23

	Autumn 1 st COMPUTING SYSTEMS AND NETWORKS	Autumn 2 nd	Spring 1 st DATA AND INFORMATION	Spring 2 nd	Summer 1 st PROGRAMMING	Summer 2 nd
Pre School Knowledge	My friends and family Technology around us Role Play - laptop, phone and keyboard in role play indoor and outdoor CD player for music	Light and celebration Explore Keyboard Adult model scribing of childs words using keyboard to type Talking buttons for recording talk	Read a story? Buttons directions Use an algorithm on Bee bots for direction and control as they make a path through the characters in Handas Surprise Group and label	Are we there yet? Technology around us Listening to and recording sounds from online, from film and CD, searching for pictures of old vehicles	Minibeasts Digital and media Drawing using an ipad to represent a creature Beebots for simple two or three step algorithm	The Seaside Technology around us Use role play indoors and outdoors to emulate RNLI coastguards. Mobile phones, messaging, laptop and keyboard.
Pre School Vocab	control, on, off, play, keyboard, type	record, on, off, stop, switch, socket	instructions, direction, program, group and label	Internet search, filter, enter, select	touch, tools, pad, draw, select	Revisit- control, on, off, play, keyboard, type
EYFS Knowledge	Marvellous Me Using google maps to locate school. Role play area – home with IT included (eg. microwave, laptop with keyboard). Taking photos of faces/emotions on iPads. CD player to sing songs. Charanga – music.	Light & Celebrations Light box to create pattens linked to stained glass windows. iPads to take photos of our visit to local church. Shadow puppets using torches to retell Rama & Sita story. Battery powered tealights for diva lamps. Using internet to look at pictures of Christmas trees from the past. CD player to sing songs. Charanga - music	King, Queen & Country Video images of London landmarks online. Virtual tour of Sandringham. Program beebots to visit landmarks on a map. CD player to sing songs. Charanga - music	Air, Land & Sea Online clips of planes, Barnaby Bear, lifeboat rescue. Use laptops to crate a word document about a vehicle. Using a phone to dial 999 in an emergency. CD player to sing songs. Charanga - music	Living & Growing Photos of living things to compare as they grow. Photos on iPads to record the changes in caterpilllars. Use ipad to make a drawing of a plant CD player to sing songs. Charanga - music	The Ocean Program beebots on sea themed mat. Digital sea themed pictures using laptops. CD player to sing songs. Charanga - music
EYFS Vocabulary	Internet, google maps, search, zoom, photo, image, delete	Light box, switch, on & off, internet, search, photo, image	Record, film, program, instructions, algorithm,	Internet, online, film, phone call, press	Record, image, photo, playback, delete	Program, instructions, algorithm, mouse, cursor, keys, move, select

Year 1	TECHNOLOGY	Digital media- Digital	GROUPING DATA	Digital media- Digital	MOVING A ROBOT	District and the District
Knowledge	AROUND US	writing *	Label and match	writing *		Digital media- Digital writing *
	E- safety- privacy and security Technology around us Using Technology Developing mouse skills Using a computer keyboard Developing keyboard skills Using a computer responsibly Creating Media-Digital painting (Art lesson)	Explore keyboard Adding and removing text Exploring tool bar Making changes to text	Group and count Describe an object Making different groups Comparing groups Answering questions	Explore keyboard Adding and removing text Exploring tool bar Making changes to text	Four directions	Explore keyboard Adding and removing text Exploring tool bar Making changes to text
	Selecting shape tools and colours		Object John Longon	Madana	E-manufacture and	Mariana
Year 1 Vocabulary	manufactured, computer, mouse, keyboard, screen,	keyboard, keys, letters,	Object, label, group, search, image, property, sort, colour, size, shape	keyboard, keys, letters, Microsoft Word, Google Docs, numbers, space, backspace, text cursor,	turn, clear, go, commands Instructions, directions Left, right, Plan, algorithm, program, route	Word processor, keyboard, keys, letters, Microsoft Word, Google Docs, numbers, space, backspace, text cursor, capital letters, toolbar, bold, italic, underline, mouse, select, font, undo
Year 2 Knowledge	Reinforcing Knowledge		PICTOGRAMS Counting & Comparing Entering Data Creating pictograms What is an Attribute Comparing people	INFORMATION TECHNOLOGY AROUND US What is information technology? Where have we seen	ROBOT ALGORITHMS Giving instructions Same but different, Making predictions Mats and routes Algorithm design Debugging	Creating Media- Creating Music (Music lesson) Creating a piece of music using chrome music lab

Year 2 Vocabulary			Attribute, block diagram, common, data, entre, pictogram, tally chart	resize,file, image,drag and drop, barcode, scanner, internet safety	Instruction, sequence, clear, unambiguous, algorithm, program, order, commands prediction, artwork, design, route, mat debugging.	Music, planets, Mars, Venus, war, peace, quiet, loud, feelings, emotions, pattern, rhythm, pulse, pitch, tempo, notes, instrument, Create, emotion, pitch, beat, open, edit
Year 3 Knowledge	CONNECTING COMPUTERS How does a digital device work? What parts make up a digital device? How do digital devices help us? How am I connected? How are computers connected? What does our school computing network look like?	Create a template Can you add content Lay it out	BRANCHING DATABASES Yes or no questions Making groups Creating a branching database Structuring a branching database Using a branching database Presenting information	Digital media- Desktop publishing * Words and pictures Can you edit it Create a template Can you add content Lay it out	SEQUENCE IN MUSIC Introducing scratch Programming Sprites Sequencing Ordering commands	Digital media- Desktop publishing * Words and pictures Can you edit it Create a template Can you add content Lay it out
Year 3 Vocabulary	Digital devise, input, output, process, program, connection, network, network switch, server, wireless access point (WAP).	Text, images, animation, message, font, paint palette, slider, return, backspace, shift, chevron, character	Attribute, value, table, object, branching database, database, equal, structure, selecting, decision tree, question.	message, font, paint palette, slider, return, backspace, shift, chevron, character	Scratch, programming, blocks, commands, code, sprite, costume, stage, backdrop, motion, turn, point in direction, go to, glide, sequence, event, task, design, run the code, order, note, chord, design, algorithm, bug, debug	Text, images, animation, message, font, paint palette, slider, return, backspace, shift, chevron, character

Year 4						
Knowledge	THE INTERNET Connecting Networks What is the internet made of? Sharing information What is a website? Who owns the web? Can I believe what I read?	Editing Creating media- Photo editing* Changes digital images	DATA LOGGING Answering questions Data Collection Logging Analysing Data Data for answers Answering my question	Creating media- Audio editing* Digital recording Creating a podcast Editing Creating media- Photo editing* Changes digital images Retouching images Making a publication	REPETITION IN SHAPES Programming a screen turtle Programming letters Patterns & repeats, Using loops to create shapes Creating a program	Creating media- Audio editing* Digital recording Creating a podcast Editing Creating media- Photo editing* Changes digital images Retouching images Making a publication
Year 4 Vocabulary	Search engine, internet, internet browser, website, network switch, server, wireless access point (WAP), router.	Audio, record, playback, microphone, speaker, input, output, Composition, digital image, edit, retouch, publication, elements	Data, input devise, sensor, data pint, interval, import, export, analyse.	Audio, record, playback, microphone, speaker, input, output, Composition, digital image, edit, retouch, publication, elements	Program, turtle, commands code snippet, algorithm, design, debug, pattern, repeat, repetition, count-controlled loop, algorithm, value, trace, decompose, procedure	Audio, record, playback, microphone, speaker, input, output, Composition, digital image, edit, retouch, publication, elements
Year 5						
Knowledge	Systems and Searching Systems Computer systems and us. Searching the web. Selecting search results. How search results are ranked. How are searches influence.	Creating media- Video editing* Create a storyboard Use a devise to record their video Import and edit video	FLAT-FILE DATABASES Creating a paper-based database Computer databases Using a database Using search tools Comparing data visually	Creating media- Video editing* Create a storyboard Use a devise to record their video Import and edit video	SELECTION IN PHYSICAL COMPUTING Connecting crumbles Combining output devices Controlling & conditions Drawing designs Writing & testing algorithms	Creating media- Video editing* Create a storyboard Use a devise to record their video Import and edit video
Year 5 Vocabulary	output, search engine, refine, index, crawler, bot, server, wireless, access point, network cables, network sockets	Video, audio, recording, storyboard, script, soundtrack, dialogue, capture, zoom, storage, digital, tape, AV (audio-visual), save, videographer, video techniques: pan, tilt, angle, Video, lighting, setting, YouTuber, content, light, audio/sound, camera, colour, export, computer, Microsoft Movie Maker, split, trim/clip, edit, titles,		audio/sound, camera,	Microcontroller, Crumble controller, components, LED, sparkle, crocodile clips, connect, battery box, program, repetition, infinite loop, output devices, motor, countcontrolled loop, switch, condition, true, false, input, selection, condition, action, task, design, selection, algorithm, debug, evaluate	Video, audio, recording, storyboard, script, soundtrack, dialogue, capture, zoom, storage, digital, tape, AV (audio-visual), save, videographer, video techniques: pan, tilt, angle, Video, lighting, setting, YouTuber, content, light, audio/sound, camera, colour, export, computer, Microsoft Movie Maker, split, trim/clip, edit, titles,

		end credits, timeline, transitions, audio, soundtrack, content, retake/reshoot special effects, screen, constructive feedback		end credits, timeline, transitions, audio, soundtrack, content, retake/reshoot special effects, screen, constructive feedback		end credits, timeline, transitions, audio, soundtrack, content, retake/reshoot special effects, screen, constructive feedback
Year 6 Knowledge	COMMUNICATION AND COLLABORATION Internet addresses Data packets Working together Shared working How we communicate Communicating responsibly		SPREADSHEETS What is a spreadsheet Modifying spreadsheets What's the formula? Calculate and Duplicate Event planning Presenting data		VARIABLES IN GAMES Introducing variables Variable programming Designing a games Designing a code Improving & sharing	Creating Media- 3d modelling (DT Lesson) Create the 3d model using Tinkercad
Year 6 Vocabulary	Digital device, input, process, output, program, digital, non-digital, connection, network, network switch, server, wireless access point, network cables, network sockets.		Cell, row, column, spreadsheet, tab, formula, function, manual input, output		value, set, design, event, algorithm, code, task, artwork, program, project, test,	2D, 3D, 3D object, 3D space, view, resize, colour, lift, rotate, position, select, duplicate, dimensions, placeholder, hole, group, ungroup, resize, design, modify, evaluate, improve.