

## West Norfolk Academies Trust (Primary) – Curriculum Map – Computing

	Autumn 1 <sup>st</sup>  COMPUTING SYSTEMS AND NETWORKS	Autumn 2 <sup>nd</sup>	Spring 1 <sup>st</sup>  DATA AND INFORMATION	Spring 2 <sup>nd</sup>	Summer 1 <sup>st</sup>  PROGRAMMING	Summer 2 <sup>nd</sup>
PreSchool Knowledge	<b>My friends and family Technology around us</b>  <b>Role Play - laptop, phone and keyboard in role play indoor and outdoor CD player for music</b>	Light and celebration <b>Explore Keyboard</b>  Adult model scribing of child's words using keyboard to type Talking buttons for recording talk	Read a story? <b>Buttons directions</b> Use an algorithm on Bee bots for direction and control as they make a path through the characters in Handas Surprise Group and label	<b>Are we there yet? Technology around us</b>  <b>Listening to and recording sounds from online, from film and CD, searching for pictures of old vehicles</b>	<b>Minibeasts Digital and media</b>  <b>Drawing using an ipad to represent a creature</b>  <b>Beebots for simple two or three step algorithm</b>	<b>The Seaside Technology around us</b> Use role play indoors and outdoors to emulate RNLI coastguards. Mobile phones, messaging, laptop and keyboard.
Preschool Vocabulary	control, on, off, play, keyboard, type	<b>record, on, off, stop, switch, socket</b>	<b>instructions, direction, program, group and label</b>	<b>Internet search, filter, enter, select</b>	<b>touch, tools, pad, draw, select</b>	Revisit- control, on, off, play, keyboard, type
YR Knowledge	<b>Marvellous Me</b> Using google maps to locate school.  Role play area – home with IT included (eg. microwave, <b>laptop with keyboard</b> ). Taking photos of faces/emotions on iPads. CD player to sing songs. Charanga – music.	<b>Light &amp; Celebrations</b> Light box to create patterns 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	<b>King, Queen &amp; Country</b> Video images of London landmarks online.  Virtual tour of Sandringham.  <b>Program beebots to visit landmarks on a map.</b> CD player to sing songs.  Charanga - music	<b>Air, Land &amp; Sea</b>  Online clips of planes, Barnaby Bear, lifeboat rescue. Use laptops to create a word document about a vehicle. Using a phone to dial 999 in an emergency.  CD player to sing songs. Charanga - music	<b>Living &amp; Growing</b>  Photos of living things to compare as they grow. Photos on iPads to record the changes in caterpillars.  <b>Use ipad to make a drawing of a plant</b>  CD player to sing songs. Charanga - music	<b>The Ocean</b>  <b>Program beebots on sea themed mat.</b> 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
<b>Year 1 Knowledge</b>	<b>TECHNOLOGY AROUND US</b>  Technology around us Using Technology Developing mouse skills Using a compute keyboard Developing keyboard skills Using a computer responsibly  <b>Creating Media-Digital painting (Art lesson)</b> Selecting shape tools and colours	<b>Digital media- Digital writing *</b>  Explore keyboard Adding and removing text Exploring tool bar Making changes to text	<b>GROUPING DATA</b>  Label and match Group and count Describe an object Making different groups Comparing groups Answering questions	<b>Digital media- Digital writing *</b>  Explore keyboard Adding and removing text Exploring tool bar Making changes to text	<b>MOVING A ROBOT</b>  Buttons Directions Forwards and backwards Four directions Getting there Routes	<b>Digital media- Digital writing *</b>  Explore keyboard Adding and removing text Exploring tool bar Making changes to text
<b>Year 1 Vocabulary</b>	Technology, electronic, manufactured, computer, mouse, keyboard, screen, click, safely, responsibly.  paint program, tool, paintbrush, erase, fill, undo, Piet Mondrian, primary colours, shape tools, line tool, Henri Matisse, Wassily Kandinsky, feelings, colour, brush style Georges Seurat, Pointillism, brush size Pictures, painting, computers, like, prefer, dislike	Word processor, keyboard, keys, letters, Microsoft Word, Google Docs, numbers, space, backspace, text cursor, capital letters, toolbar, bold, italic, underline, mouse, select, font, undo	Object, label, group, search, image, property, sort, colour, size, shape	Word processor, keyboard, keys, letters, Microsoft Word, Google Docs, numbers, space, backspace, text cursor, capital letters, toolbar, bold, italic, underline, mouse, select, font, undo	Forwards, backwards, 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
<b>Year 2 Knowledge</b>	<b>INFORMATION TECHNOLOGY AROUND US</b>		<b>PICTOGRAMS</b>  Counting & Comparing Entering Data		<b>ROBOT ALGORITHMS</b>  Giving instructions Same but different, Making predictions	<b>Creating Media- Creating Music (Music lesson)</b> Creating a piece of music

	<p>What is information technology? Where have we seen technology at home? Where have we seen information technology in the world? How does information technology improve our world? Demonstrate safe use of information technology Using information technology responsibly</p> <p><b>Creating Media- digital photography (Geography)</b> Take a photography and use effects</p>		<p>Creating pictograms What is an Attribute Comparing people Presenting Information</p>		<p>Mats and routes Algorithm design Debugging</p>	using chrome music lab
<b>Year 2 Vocabulary</b>	<p>Information technology, computer, file, image, bar code, scanner.</p> <p>Device, camera, photograph, capture, image, digital landscape, portrait, horizontal, vertical, field of view, narrow, wide, format, framing, focal point, subject matter, field of view, compose natural lighting, artificial lighting, flash, focus, background, foreground, editing, tools, colour, filter, images, Pixlr, changed, real</p>		<p>Attribute, block diagram, common, data, entre, pictogram, tally chart</p>		<p>Instruction, sequence, clear, unambiguous, algorithm, program, order, commands prediction, artwork, design, route, mat debugging.</p>	<p>Music, planets, Mars, Venus, war, peace, quiet, loud, feelings, emotions, pattern, rhythm, pulse, pitch, tempo, notes, instrument, Create, emotion, pitch, beat, open, edit</p>
<b>Year 3 Knowledge</b>	<p><b>CONNECTING COMPUTERS</b></p> <p>How does a digital device work? What parts make up a digital device? How do digital devices help us? How am I connected?</p>	<p><b>Digital media- Desktop publishing *</b> Words and pictures Can you edit it Create a template Can you add content Lay it out</p>	<p><b>BRANCHING DATABASES</b> Yes or no questions Making groups Creating a branching database Structuring a branching database Using a branching database</p>	<p><b>Digital media- Desktop publishing *</b> Words and pictures Can you edit it Create a template Can you add content Lay it out</p>	<p><b>SEQUENCE IN MUSIC</b> Introducing scratch Programming Sprites Sequencing Ordering commands</p>	<p><b>Digital media- Desktop publishing *</b> Words and pictures Can you edit it Create a template Can you add content Lay it out</p>

	How are computers connected? What does our school computing network look like?		Presenting information			
<b>Year 3 Vocabulary</b>	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.	Text, images, animation, 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