



Computing Sequence and Progression Document (vocabulary to be explicitly taught is in Red)

(updated Sept 23)

Year 1

Aut 1	Aut 2	Spr 1	Spr 2	Sum 1	Sum 2
NCCE Unit 1 – Technology around us (4 weeks) Wk 1: L1&2 Wk 2: L3 Wk 3: L4&5 Wk4: L6 PM Unit 1.2 Grouping and Sorting (2 wks)	Unit 1.1 Online Safety (4 wks) Unit 1.3 Pictograms (3 wks)	Unit 1.4 Lego Builders (3 wks) (merge weeks 1 and 2) Unit 1.5 Maze explorers (4 wks) Drop week 4 if needed	Unit 1.7 Coding (6 wks)	Unit 1.6 Animated Story Books (6 wks) 1 week to allow for sharing of work. Project linked to a context from wider curriculum	NCCE Year 1 unit 5 Creating Media Digital writing 6 weeks

Year 2

Aut1	Aut2			Summer1	
NCCE unit Year 2 taking photographs using ipads (6 weeks)	PM Unit 2.4 Questioning (4 lessons) PM Unit 2.7: Making Music (3 lessons.)	PM Unit 2. 1 coding (6 weeks)	PM unit 2.2 online safety (3 lessons) PM unit 2.5 effective searching (3 lessons) Knowing understanding key vocabulary eg internet, search engine, webpage/site, browser Know how to use a simple search engine safely Know how to be safe online	PM unit 2.8 Presenting ideas: Purple mash lessons 1, 2 and 3 used to form the basis of building a presentation. Then lessons 4 and 5 building a presentation on Key note linked to either curriculum context or transition. Knowledge for lessons 4 and 5 I know how to manipulate an image in key note, add text and change font and colour, backgrounds. 5	Preparing for the next stage. Kapow word processing unit 5



KNOWLEDGE PROGRESSION

(look at alongside Nursery and Reception document)

Term		Year 1	Vocabulary	Curriculum Application		Year 2	Curriculum Application	Vocabulary
Autumn 1 NCE Unit 1 Technology around us (4weeks) and PM unit 1.2 Grouping and Sorting	Wk1	I know how to explain technology as something that helps us I can name the: desktop/laptop, screen, mouse/track pad, keyboard, base unit. I know how to switch on and log into a computer	Technology desktop/laptop, screen, mouse/track pad, keyboard, base unit. log	English writing	Autumn 1 NCE Year 2 Photograph unit	SAFETY: I know how to keep myself safe when taking and sharing photos I know and can recognise what devices can be used to take photographs I can talk about how to take a photograph I can explain what I did to capture a digital photo	Links to Light and perspective in ART	Devices Photographs digital photo capture
	Wk 2	I can use a mouse to open a program I can click and drag to make objects on a screen I can use a mouse to create a picture	Program click and drag			I know and can explain the process of taking a good photograph I know how to and can take photos in both landscape and portrait format I can explain why a photo looks better in portrait or landscape format		landscape and portrait format
	Wk 3	I know what a keyboard is for I know how to type my name on a computer I know and can save my work to a file I can open my work from a file I can use the arrow keys to move the cursor I can delete letters (back space)	Keyboard Save arrow keys File Cursor Delete back space			Lighting: I know some things that make a good photo. I can identify what is wrong with a photograph I can discuss how to take a good photograph I can improve a photograph by retaking it		retaking
	Wk 4	I know and can identify rules to keep us safe and healthy when we are using technology in and beyond the home				Effects: I know that images can be changed I can use a tool to achieve a desired effect I can explain my choices		Effect tool
	Wk 5	I know and can sort items using criteria such as shape, colour and size.	sort			I can apply a range of photography skills to capture a photo I can recognise which photos have been changed I can identify which photos are real and which have been changed		
	Wk 6	I know and can sort items on the computer using the ' Grouping ' activities in Purple Mash.	Grouping'					

Autumn 2 PM units 1.1 Online safety (4 weeks) and PM 1.3 Pictograms (3 weeks)	Wk1	Safe Logins: Children know how to login in and save work to My work, knowing it is a private saving space.	Login Save	Maths	Autumn 2 PM Units 2.4 (4 weeks) Unit 2.7 Making Muisic (3weeks)	Pictogram: Children know how to answer a question using a pictogram	Maths	Pictogram
	Wk2	My work area: Children know how to find and open saved work, search for resources and find messages	open			Children know how to answer yes no questions to sort items		to sort
	Wk3	Topics: Children will know how use the different icons and writing cues to add pictures and text to their work.	icons			Binary Trees : Children know how to design a binary tree to sort pictures of children		Binary Trees
	Wk4	Tools: Children know and understand how to use the icons for Save, Print, Open and new				2question: Children know how to match 2smple item pictures to names using binary tree		Linked to Music-making long and Short sounds, creating and performing Rhythms. Binary Trees
PM 1.3 Pictograms (3 weeks)	wk1	Data in pictures: Children know how to collect data about travel to school and can create an off line pictogram .	pictogram. Data	Unit 2.7 Making Muisic (3weeks)	2sequence: Children know how to use the different sounds to create a tune , knowing what happens when sounds are moved	Next half term- this will form the foundation for next half terms Art work about how music can be used to reflect feelings and will be referred back to.	tune,	
	Wk2	Class pictogram: Children know what a pictogram is for and can say what it shows	pictogram		Making music : Children know how to change a tune , add sounds to it and can change the volume		volume	
	WK3	Recording results: Children know how to represent data from rolling a dice as a pictogram	data pictogram		Soundtracks : Children know how to upload a sound, create a sound and use these to create a tune.		Soundtracks:	

Spring 1 PM unit 1.5 Maze Builders (4 wks, drop week 4 if appropriate)	Wk1	Instructions: Children know and understand what an instruction is. Children know and understand what an algorithm is.	Algorithm instruction	English: Links with instructions and factual writing. English/science instructions	Spring 1 PM Unit 2.1 Coding. 9 wks	Revisit: Algorithms: Children know that and algorithm is a set of instructions	English: Links with instructions and factual writing.	Algorithm instruction
	Wk2	Follow and create: Children know that an algorithm written for a computer to follow is called a program.	algorithm			Collision detection: Children know how to create a programme including collision detection and can predict the outcome		Programme collision detection predict
	Wk3	Recipe: Children know that correcting errors in an algorithm or program is called debugging	errors in an algorithm or program is called debugging			Use of OZObots		Timer : Children know how to create a program with a timer-after command and predict the outcome.
	Wk1	Children know and understand the functionality of the basic direction keys in Challenges 1 and 2	direction keys			Object types : Children know how to create a program with different object types, different events and modify their properties .		properties. Object types
	Wk2	Children know and understand how to create and debug a set of instructions (algorithm)	(algorithm)			Buttons : Children know and understand how to create a programme with a button object and can modify it's properties to fit the design		button
	Wk3	Children know how to use the additional direction keys as part of their algorithm To provide an opportunity for the children to set challenges for each other	(algorithm direction keys)			Debugging : Children know and understand what debugging means and debug a program		debugging
Spring 2 PM 1.7 Coding (6 weeks)	Wk 1	Children know and understand that computer programs work by following instructions called code .	computer programs code .	Spring 2 PM 2.2 Online Safety(3 wks) and PM unit 2.5 Effective Searching (3 weeks)	Email : Children know that things can shared on the internet/online	English writing Unit 2.2- linked to PSHE- KidSafe- Keeping children safe online and knowing how to use the internet safely.	Email	
	Wk 2	Children know how to use code to make a computer program . Children know how to understand what objects and actions are.	what objects and actions are.		Email : Children know and understand what an email is and can send and receive an email through purple mash			

	Wk 3	To know and understand what an event is. To use an event to control an object	event	unit 2.5 Effective Searching (3 weeks)	Online safety: children know and understand what a digital footprint is	
	Wk 4	To know and understand what an event is. To begin to understand how code executes when a program is run. Children can create a simple program using code blocks . Children can use event, object and action code blocks .	how code executes code blocks event, object and action code blocks		Internet search: Children know what it means to search for something on the internet . Search engine, Browser	to search internet. Search engine, Browser
	Wk 5	To know and understand what backgrounds and objects are. Children can edit a scene by adding, deleting and moving objects . Children can change the size of objects using the attributes (properties) table	backgrounds and objects are by adding, deleting and moving objects attributes (properties) .		Searching: Children know how to search for something on the internet . Webpage/site	internet. Webpage/site
	Wk 6	Children know how to and can create a design plan for their Free Code Scene program. Children can use code to make the program they have designed work.	design plan use code the program		Online safety: Children know how to search the internet effectively and keep safe	Online safety
	Wk 1	Children know how to use the different drawing tools to create a picture on the page. Children can add text to a page. Save the page they have created	drawing tools add text . Save		Presenting: Children know that digital content can be represented in in many forms eg mind map, quiz, ebook	digital content mind map, quiz, ebook
	Wk 2	Children can open previously saved work. Children know how to add an animation to a page. Children can play the pages created. Children can save changes and overwrite the file	Animation Open Add Play save		Quiz: Children know how to make a quiz using 2quiz	quiz
Summer 1 PM unit 1.6 Animated story Books (6weeks, includes and additional week for sharing the books and linking the context of the project to the wider curriculum)	Wk 3	Children can add a sound to the page. Children now how to add voice recording to the page. Children can create music for a page	voice recording create	Fact file: children know how to use information from 2connect to make a fact file adding clipart , photo and a table. Presentation: children know how to create one piece of content combining software	Information clipart	
	Wk 4	Children can add a background to the page. Children can use the additional drawing tools on My Story mode. Children can change the font style and size	font style and size	I know how to manipulate an image in key note on the ipad.	Key note	
				Summer 1 PM Unit 2.8 Presenting Ideas (lessons 1 and 2 from PM and lessons 4 and 5 amended to use keynote on ipads.		

	Wk 5	Children can use the copy and paste function to add more pages to their animated e-book. •	copy and paste			I know how to add text and change font, colour and back ground on Keynote		add text and change font, colour and back ground
	Wk 6	Children know how to share their e-books by playing them on an ipad or device. Present, Evaluate and Edit..				I know how to and can share my presentation on key note.		
Summer 2 NCCE Year 1 unit 5 Creating Media digital writing (6 weeks)	Wk 1	I know how to open a word processor I can recognise some keys on a keyboard I can identify and find letter keys on a keyboard	word processor on a keyboard keys		Summer 2	I can find keys on a computer keyboard . I can type capital letters using 'shift'. I can identify that the keyboard is an important input device .		computer keyboard type capital letters using 'shift'. input device .
	Wk 2	I know how to and can enter text into a computer I can use letter, number, and Space keys I can use Backspace to remove/delete text	letter, number, and Space keys I can use Backspace to remove/delete			I can type a sentence into a word processor . I can select text and make it bold or italic . I can explain how to make other changes to a document .		word processor bold or italic .
	Wk 3	I know how to type capital letters using the shift key I can explain what the keys that I have already learnt about do I can identify the toolbar and use bold, italic, and underline	capital letters shift key the toolbar and use bold, italic, and underline			I can use keyboard shortcuts to alter text. I can search for and find an appropriate image . I can import and alter an image in a document.		use keyboard shortcuts can search appropriate image . I can import
	Wk4	I know how to edit text in a word processor. I can select a word by double-clicking I can select all of the text by clicking and dragging I can change the font	double-clicking clicking and dragging change the font select			I can use text styles to create headings and subtitles. I can copy and paste text into a document..		text styles copy and paste
	Wk 5	I know how to edit text in a word processor. I can say what tool I used to change the text I can decide if my changes have improved my writing I can use ' Undo ' to remove changes	Tool undo			I can use keyboard shortcuts . I can use different text styles . I can import and alter an image in a document. I can evaluate my writing.		keyboard shortcuts etxt styles .



	Wk 6	I can will make comparisons between using a computer for writing and writing on paper. I know how the two methods are the same and different and think of examples to explain this. I can demonstrate making changes to writing using a computer to compare the two methods.				Assessment		
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