Year R Computing Long Term Plan 2023- 2024

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
ſ	Baseline	All about instructions	Bee- Bots	Introduction to data	Exploring hardware	Using a computer
		Programming	Programming	Data handling	Computing systems &	Computing systems &
					networks	networks

Although the 'Technology' strand has now been removed from 'Underst<mark>anding the World', w</mark>e believe that computing and technology are still vitally important subjects to deliver to Reception children. Not only will teaching a well-planned Computing curriculum ensure that children enter Year 1 with a strong foundation of knowledge, but Computing lessons in the EYFS also ensure that children develop listening skills, problem-solving abilities and thoughtful questioning — as well as improving subject skills across the seven areas of learning.



Year R Medium Term Plan – Computing

Term 2- Programming "/	All about instructions"					
National Curriculum Links: ELGs & Do	evelopment Matters		Opportunities in CI	Key Vocabulary	Pupil Offer	
C&L Rec: Understand how to listen carefully ar Articulate their ideas and thoughts in Use talk to help work out problems a might happen. Describe events in some detail. PSED Rec: Build constructive and respectful rela Know and talk about the different face ELG: Give focused attention to what the te an ability to follow instructions involved Be confident to try new activities and Work and play cooperatively and take PD Rec:	nd why listening is important. well-formed sentences. nd organise thinking and activities, and tionships. ctors that support their overall health a eacher says, responding appropriately e ving several ideas or actions. I show independence, resilience and pe	ven when engaged in activity, and show	Using real life technology in child — initiated, including: - telephones - cameras - tills - torches - oven - microwave - washing machine	Call, phone, mobiles, tablets, photograph, capture, take, open, close, on, off, instructions, guide, predict, guess	Pupils get to explore a wide range of technological devices during their child — initiated. These devices will be modelled correctly and safely by the adults in the setting. Linking to our term 2 enquiry (Food and Celebrations) we will be demonstrating how cameras may be used during celebrations and special events.	
Following Instructions	Giving Instructions	Giving Instructions	Debugging instruction	S	Predictions	
Play 'Simon Says' Play 'If you' Animal listening game	In small groups, the children will guide their partner through a basic obstacle course.	Sit in a circle with dressing up items in the middle. Give child an instruction, "Put on the hat." Bean bag throw for other children to give another instruction.	Ask the children to give a instructions on how to wash hands. Write down the instructions. Adult to follow sinstructions: i.e. if child says soap on hands' do not rub They can then adjust the instructions. Photographs of the final ste be displayed in class.	n their ir specific s, 'Put it in. eir	Using photographs, and building on pupils learning throughout the term, ask children to predict the outcome.	

Term 4 – Data Handling "	Introduction to Data Handli	ng "				
National Curriculum Links: ELGs & I	Development Matters		Opportunities in CI	Key Vocabul	ary Pu	pil Offer
C&L Rec: Articulate their ideas and thoughts is Use talk to help work out problems work and why they might happen. ELG: Make comments about what they h Listen attentively and respond to whe when being read to and during who Participate in small group, class and introduced vocabulary. Maths Rec: Count objects, actions and sounds. Subitise. Count beyond ten. Compare numbers.	in well-formed sentences. and organise thinking and activities, an ave heard and ask questions to clarify that they hear with relevant questions, of le class discussions and small group into one-to-one discussions, offering their of the class than relationship between consets patterns.	cheir understanding. comments and actions eractions. own ideas, using recently	Using real life technology in child – initiated, including: - telephones - cameras - tills - torches - oven - microwave - washing machine - calculators - scanners	Sort/ sorting organise, grocategories, amounts, concounting, modes, taller, so data, branch database, gropoular, modes, tall, probiles, tabicalculator, so till.	c, Lin coups, 'Sp wil unt/ rar ore, ou maller, ter aph, op st, sea none, loc lets, tre	king with our enquiry, oring Growth', pupils all be able to explore a ange of technology in a rhome corner this arm: a garden centre. pils will also have the portunity to explore asonal change by oking online at flowers, sees and the weather ports.
Loose parts play	Sorting ourselves	Yes or no?	Creating a branchi	ng database	Explo	oring pictograms
Have tuff tray of loose parts (pinecones, acorns, buttons, lids etc.) and containers to sort into	In groups of 4-5, children are to sort themselves in height order. Allow time to discuss.	All children to stand up. E. you will be asking questi Yes = stay standing No = sit down Ask questions, until there child left standing. Change the game: think of	the previous lesson: the activity today is are recording the re no questions and drawn on the floor wone direction, no the	g activity from s. Explain that similar, but we sults. Ask yes/ have arrows with chalk (yes	Draw a graph on the board, with each fruit at the bottom of each column. Ask the children if they like bananas, and if they do, they must place their photo of the	

Change the game; think of one

pupil. Ask all to stand, then choose

a child to ask a question, "Do they

have..."

At the end of the game, explain we

were 'sorting data'.

children to follow the arrows.

Continue with different questions

and more arrows. Show the

children where you started and

talk through what happened.

Explain that this way of sorting is called a branch database.

banana in the column. Count the

amount and match it up to the

graph. Repeat for other fruits.

(egg boxes/ muffin trays etc.)

Ask children to sort into

categories.

Sort into different categories, such

as: eye colour, hair colour, types of

clothing.

Term 5 - Computing systems and networks "Exploring hardware"								
National Curriculum Links: ELGs & D	evelopment Matters		Opportunities in CI	Key Vocabul	ary	Pupil Offer		
C&L			Using real life	Computer, la		Pupils will have the		
Rec:			technology in child –	mouse, keyb		opportunity to apply their		
Learn new vocabulary.		initiated, including: USB stick, sy			knowledge of capturing			
Use new vocabulary through the day		- telephones fan, hard dri			photos by taking photos			
	o check they understand what has bee	- cameras monitor, cor			of insects and living			
•	ind organise thinking and activities, an	- tills tower, speak		-	things, to link in with our			
why they might happen.			- torches mobile phon			term 5 enquiry		
Articulate their ideas and thoughts in	n well-formed sentences.		- oven	walkie-talkie	-	'minibeasts'.		
PSED		10.5	- microwave	tablet/iPad,	•			
Rec:		A TALLY	- washing machine	camera, digit	_			
See themselves as a valuable individu	ual.	A AFERT	5	clock, remot				
PD		TA SE A		control, elec				
Rec:			1	toothbrush,				
Develop their small motor skills so th	at they can use a range of tools comp	et <mark>ently, safely and confidently.</mark>	~	photos,	,			
Confidently and safely use a range of		photographs	i,					
UW	1	camera, flip,						
Rec:	(album, galler	ry.					
Describe what they see, hear and fee	el whilst outside (or inside).				•			
Exploring hardware tinker tray	Real world tinker tray	Photographs- Pictures of play	Picture wal	k		Class photo album		
	Set up a selection of everyday		In small groups take t	he children				
Lay out the selection of	technology, such as mobile		on a walk around the school		1:1 show the child how to digitally			
disconnected computer hardware	phones, walkie-talkies, tablet/iPad,	During child- initiated, choose an	grounds, either indoors or		flip the camera so they can see			
and the tools (screwdriver and	digital camera, digital clock,	appropriate moment and ask if	outdoors. Before you set off,		themselves. Allow them to			
magnifying glass) such as mouse,	remote control, electric	they want to record what they are	decide as a group wh	nat you are	experiment and take a few. Look			
keyboard, USB stick, system fan,	toothbrush, and tools (magnifying	doing by taking a photograph.	searching for. For	example:	throug	h and let them choose their		
hard drive, monitor, computer	glass). Children explore the	These will be recorded on Seesaw	shapes, numbers,	seasons	favourite.			
tower, speakers. Allow the	objects.	and displayed within the	changing or co	ours.				
children to explore the tinker tray		classroom to promote discussion.	Allow each child to spo	ot and take a	Writir	ng extension: write a label/		
independently.	Share the images and ask children		photo. These will	then be	sen	tence about their photo.		
	to name and describe the objects.		discussed in c	lass.				
	9	ry S	C,					

National Curriculum Links: ELGs & D	evelopment Matters		Opportunities in CI		Key Vocabulary	Pupil	l Offer
safely and confidently. Lit Rec:			Using real life technol child – initiated, inclu - telephones - cameras - tills - torches - oven - microwave - washing machine		Computer, laptop, keyboard, mouse, monitor, log in/ out, cursor, touchpad, clicker, left- click, right- click.	more comp session directory the country white photo our to	term, the pupils will be becoming independent when using puters/laptops. All computer ons will be in a guided teacherated lesson. It computing opportunities involve children using the interactive eboard, and capturing their own lographs using the school iPads. Iterm 6 enquiry (Under the Sea) will live using the internet as a mode of earch.
Keyboards	Logging in and out	Mouse control		Mouse control (clicking)			Mouse control (clicking and dragging)
Look at a computer/laptop. Discuss and name the different parts. Focus on the keyboard. Discuss if they have used one/what is it used for? Give each child a keyboard print out Look at the letters/ numbers - Call out a number/ letter and ask them to point to it - Colour in the letters in their name	In small groups, provide each child with a computer/ laptop. Provide each with a login card. Ask if they know what 'log in' means. Discuss the importance of computer safety and why we need to log in/ out. Give each child their login card, ask to find name and read the word. Explain that this is their password. Discuss importance of passwords. Help children to enter their name and use the cursor.	Show the chi ask if they Show the chi mouse mov screen (curse explore us cursor. Show mous Let the child using the	ps, provide each child uter/laptop. Retrieve varning about logging in. ildren the mouse and know the purpose. Idren that moving the res the arrow on the or). Allow children to sing the mouse and them how to use the se/touchpad. Iren experiment with cursor on paint or ketchpad.	with a cor and recap in. Rec Show th paint. As th mouse children t	roups, provide each chaputer/ laptop. Retried learning about logging the mouse/ touchpad. em the 'stamp' tool or issist children with using e clickers on the /touchpad. Allow the o experiment with usithe stamp tool.	eve ng n	In small groups, provide each child with a computer/ laptop. Recap previous learning, including logging in, mouse/cursor control, clicking and keyboard. Find an age-appropriate game for the children to play so they can practise clicking and dragging: phonics play or Top Mark's.
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