## Year R Understanding the World/ Computing Long Term Plan 2024- 2025

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	Programming 1: all about instructions	Programming 2: Beebots *lesson 1 & 3 only to coincide with STEM week	Data handling: introduction to data	Computing systems and networks: exploring hardware	Computing systems and networks: using a computer *lesson 1 & 3

## Year R Medium Term Plan – Understanding the World/ Computing

https://www.kapowprima	ry.com/subjects/computing	/eyfs/eyfs-years/all-about-instruc	ctions/		
National Curriculum Links: ELGs & Development Matters			Opportunities in CI	Key Vocabulary	Pupil Offer
			Using real life technology in child –	Call, phone, mobiles,	Pupils get to explore a wide
			initiated, including:	tablets, photograph,	range of technological
Understand how to listen careful	ly and why listening is important.		- telephones	capture, take, open,	devices during their child –
Articulate their ideas and thoughts in well-formed sentences.			- cameras	close, on, off,	initiated. These devices will
		ies, and to explain how things work and	- tills	instructions, guide,	be modelled correctly and
why they might happen.	0	, ,	- torches	predict, guess	safely by the adults in the
Describe events in some detail.			- oven	ļ. 11 13, <b>3</b> 1 111	setting.
			- microwave		Linking to our term 2 enquir
PSED			- washing machine		(Food and Celebrations) we
Rec:					will be demonstrating how
Build constructive and respectful	relationships.				cameras may be used during
Know and talk about the different factors that support their overall health and wellbeing.					celebrations and special
ELG:					events.
Give focused attention to what the teacher says, responding appropriately even when engaged in activity,					
and show an ability to follow instructions involving several ideas or actions.					
Be confident to try new activities and show independence, resilience and perseverance in the face of					
challenge.					
Work and play cooperatively and take turns with others.					
PD					
Rec:					
	eed to manage the school day succe				
Lesson 1 – following	Lesson 2 – giving simple	Lesson 3 – dressing up instructions	Lesson 4 – debugging instructions	Lesson 5 – predictions	
instructions	instructions		(washing hands)		
Play 'Simon Says'	In small groups, the children will	Sit in a circle with dressing up items in the	Ask the children to give adult	Show presentation and disc	
Play 'If you' guide their partner through a basic middle.  If you have brown hair, stand up." obstacle course. Set timer for 1 min.		instructions on how to wash their hands.	Ask children to predict the o		
"If you have brown hair, stand up. Obstacle course. Set timer for 1 min. "If you have a brother, stamp your Give child an instruction, "Put on the hat."		write down their instructions.	Complete with activity. <b>Prin</b> Activity can roll into week 6		
feet."  Bean bag to toss to other children so they		Adult to follow specific instructions: i.e.	Activity call foll lifto week o	of term if fiecessary.	
"If you like fish, rub your tummy."		can give another instruction.	if child says, 'Put soap on hands' do not		
Animal listening game			rub it in.		
			Child take photos of the steps.		
			Use photos as visuals near sinks.		

Term 3- Bee- Bots https://www.kapowprimary.com/subj	ects/computing/eyfs/eyfs-years/	/programming-hee-hots/		
National Curriculum Links: ELGs & Development Matters		Opportunities in Cl	Key Vocabulary	Pupil Offer
PSED ELG: Be confident to try new activities and show indepin the face of challenge.  Maths Rec: Count objects, actions and sounds. Link the number symbol (numeral) with its cardin Count beyond ten.		Using real life technology in child  – initiated, including:  - telephones  - cameras  - tills  - torches  - oven  - microwave  - washing machine	Algorithm, instructions, forwards, backwards, left, right, turn, rotate, sequence, direction, program, call, phone, mobiles, tablets, scales.	Within our term 3 enquiry (Traditional Tales), the pupils will have the opportunity to watch adaptations of familiar traditional tales on the interactive whiteboard. During STEM week, the pupils will continue to enhance their programming skills through using bee- bots in child – initiated. Towards the end of the term, the pupils will be shown how to record videos on devices (recording role play of traditional tales in the home corner).
Lesson 1 – understanding arrows Have a route with the arrows set up. Discuss arrows and their meaning. Children stand up, all move 1 step in an arrow direction that you have shown.	Lesson 3 – simple bee- bot programming Sit children in a circle and share the arrow cards. Show and explain the bee- bot arrows. Place bee- bot sequence cards face down in the circle. Allow children to choose a sequence card and complete the bee- bot programming.			

Explain that a set of instructions is an algorithm.

If you are showing a left and right, they must turn,

not side step.
Follow set out route.

https://www.kapowprimary.com/subjects/computing/eyfs/eyfs-years/an-introduction National Curriculum Links: ELGs & Development Matters			I and the second se	Key Vocabulary	Pupil Offer
Rec: Articulate their ideas and thoughts in well-formed sentences. Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen. ELG: Make comments about what they have heard and ask questions to clarify their understanding. Listen attentively and respond to what they hear with relevant questions, comments and actions when			Opportunities in Cl Using real life technology in child – initiated, including: - telephones - cameras - tills - torches - oven - microwave	Sort/ sorting, organise, groups, categories, amounts, count/ counting, more, less, taller, smaller, data, branch database, graph, popular, most, least, call, phone, mobiles, tablets,	Linking with our enquiry, 'Spring Growth', pupils will be able to explore a range of technology in our home corner this term: a garden centre. Pupils will also have the opportunity to explore
being read to and during whole class discussions and small group interactions.  Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary.  Maths  Rec:  Count objects, actions and sounds.  Subitise.  Count beyond ten.  Compare numbers.  Understand the 'one more than/one less than' relationship between consecutive numbers.  Continue, copy and create repeating patterns.			- washing machine - calculators - scanners	calculator, scanner, till.	seasonal change by looking online at flowers, trees and the weather reports.
Compare length, weight and ca Lesson 1 – loose parts play Have tuff tray of loose parts (pinecones, acorns, buttons, lids etc.) and containers to sort into (egg boxes/ muffin trays etc.) Ask children to sort into categories.	Lesson 2 – sorting ourselves In groups of 4-5, children are to sort themselves in height order. Allow time to discuss. Sort into different categories, such as: eye colour, hair colour, types of clothing.	Lesson 3 – yes or no?  All children to stand up. Explain you will be asking questions. Yes = stay standing No = sit down Ask questions, until there is one child left standing. Change the game; think of one pupil. Ask all to stand, then choose a child to ask a question, "Do they have" If I answer yes, the children who the question applies to stay standing, the rest sit down. At the end of the game, explain we were 'sorting data'.	Lesson 4 – creating a branching database In an outdoor area, in groups of 10. Recap the sorting activity from the previous lessons. Explain that the activity today is similar, but we are recording the results. Ask yes/ no questions and have arrows drawn on the floor with chalk (yes one direction, no the other). Ask 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.	Lesson 5 – exploring pictograms  Individually cut fruit pictures so each child has an envelope with all fruits in. Place fruit pictures in an envelope (one envelope per child, with all fruits in). 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 banana in the column. Count the amount and match it up to the graph. Repeat for other fruits.	

https://www.kapowprimary.com/subjects/computing/eyfs/eyfs-years/exploring-hardware/

National Curriculum Links: ELG	s & Development Matters		Opportunities in CI Key Voc	cabulary	Pupil Offer
C&L			Using real life technology in child –	Computer, laptop,	Pupils will have the
Rec:			initiated, including:	mouse, keyboard,	opportunity to apply
Learn new vocabulary.			- telephones	USB stick, system	their knowledge of
Use new vocabulary through the	e day.		- cameras	fan, hard drive,	capturing photos by
Ask questions to find out more	and to check they understand what	has been said to them.	- tills	monitor, computer	taking photos of insects
Use talk to help work out proble	ems and organise thinking and activ	ities, and to explain how	- torches	tower, speakers,	and living things, to link
things work and why they might	t happen.	•	- oven	mobile phones,	in with our term 5
Articulate their ideas and thoug	• •		- microwave	walkie talkies,	enquiry 'minibeasts'.
PSED			- washing machine	tablet/iPad, digital	- 1
Rec:			<b>5</b> 11 1	camera, digital	
See themselves as a valuable in	dividual.			clock, remote	
PD				control, electric	
Rec:				toothbrush, record,	
Develop their small motor skills so that they can use a range of tools competently, safely and				photos,	
confidently.				photographs,	
,				camera, flip, timer,	
Confidently and safely use a range of small apparatus, alone and in a group.				album, gallery.	
UW				albuill, gallery.	
Rec:					
Describe what they see, hear and feel whilst outside (or inside).					
Lesson 1 – exploring hardware tinker tray	Lesson 2 – real world tinker tray	Lesson 3 – pictures of play	Lesson 4 – picture walk	Lesson 5 – class photo albu	m
Lay out the selection of disconnected computer hardware and the tools (screwdriver and magnifying glass) walkie talkies, tablet/iPad, digital such as mouse, keyboard, USB stick, such as mobile phones, walkie talkies, tablet/iPad, digital sak if they want to record what they are doing by taking a spectage of the such as mouse, keyboard, USB stick, such as mouse, keyboard, used to such as mouse, keybo		In small groups (5 children, perhaps 1- 2 groups a day), take the children on a walk around the school grounds, either indoors or outdoors.  Before you set off, decide as a group what you are searching for. For example: shapes,	1:1 show the child how to digitally flip the camera so they can see themselves. Allow them to experiment and take a few. Look through and let them choose their favourite.  Writing extension: write a label/ sentence about their photo		
computer tower, speakers. Allow the children to explore the tinker tray independently.  (magnifying glass). Children explore the objects.  Share the images and ask children to		numbers, seasons changing or colours. Allow each child to spot and take a photo. Display photos on a presentation and discuss. (Following week if necessary)			

Term 6- Computing systems and networks: using a computer <a href="https://www.kapowprimary.com/subjects/computing/eyfs/eyfs-years/using-a-computer/">https://www.kapowprimary.com/subjects/computing/eyfs/eyfs-years/using-a-computer/</a>

National Curriculum Links: ELGs & Development	Matters	Opportunities in CI	Key Vocabulary	Pupil Offer
PD		Using real life technology in	Computer, laptop,	This term, the pupils will be
Rec:		child – initiated, including:	keyboard, mouse,	becoming more independent
Develop their small motor skills so that they can use a	range of tools competently, safely and confidently.	- telephones	monitor, cursor,	when using computers/laptops.
		- cameras	touchpad, clicker,	All computer sessions will be in
Lit		- tills	left- click, right-	a guided teacher- directed
Rec:		- torches	click.	lesson.
Spell words by identifying the sounds and then writing	the sound with letter/s.	- oven		Other computing opportunities
Re-read what they have written to check that it makes	sense.	- microwave		involve the children using the
		- washing machine		interactive whiteboard, and
Maths			capturing their own	
Rec:				photographs using the school
Link the number symbol (numeral) with its cardinal nur			iPads.	
				Our term 6 enquiry (Under the
				Sea) will involve using the
				internet as a mode of research.
Lesson 1 – keyboards	Lesson 3 – mouse control			

Lesson 1 – keyboards	Lesson 3 – mouse control
Look at a computer/laptop. Discuss and name the different	In small groups, provide each child with a laptop. Show the
parts. Focus on the keyboard. Discuss if they have used	children the mouse and ask if they know the purpose.
one/ what is it used for?	Show the children that moving the mouse moves the arrow
Give each child a keyboard print out.	on the screen (cursor). Allow children to explore using the
- Look at the letters/ numbers	mouse and cursor. Show them how to use the mouse/
- Call out a number/ letter and ask them to point to it	touchpad.
- Colour in the letters in their name	Let the children experiment with using the cursor on paint
	or sketchpad.