

# Computing curriculum EYFS, KS1 and KS2



Computing curriculum EYFS, KS1 and KS2

At Pakeman, we are a one and a half form entry school and therefore we have a Year A / Year B cycle of topics in nursery, KS1 and KS2 (this is not needed in 2-plus or reception). In EYFS, KS1 and KS2 we use the Islington Computing scheme of work.

For each Islington computing unit of work, children should be taught the **key knowledge**, **key skills** and **key vocabulary**. Please ensure that this information is fully covered in the series of lessons that you plan. As children move through the school, they will build on prior knowledge, skills and vocabulary.

#### **Computing in EYFS:**

While computing is not explicitly part of the EYFS framework, this stage is crucial for laying the groundwork for computational thinking—a key concept that runs through Years 1-6 as part of the National Curriculum. This progression of knowledge and skills combines insights from our experiences with the children and adapted elements from the Birth to 5 framework, where technology remains a key component. Children in reception also take part in a series of computing lessons to promote digital citizenship.

#### **Contents**

- Pages 3 to 4 Computing Topic Map EYFS, KS1 and KS2 (Year A / Year B cycle)
- Page 5 Computing 2 Plus
- Page 6 Computing Nursery Year A
- Page 7 Computing Nursery Year B
- Page 8 Computing Reception
- Pages 9 to 13 Computing Common Sense Education Lessons Reception
- Pages 14 to 17 Computing curriculum Year 1/2 Year A
- Pages 18 to 21 Computing curriculum Year 1/2 Year B
- Pages 22 to 25 Computing curriculum Year 3/4 Year A
- Pages 26 to 29 Computing curriculum Year 3/4 Year B
- Pages 30 to 32 Computing curriculum Year 5/6 Year A
- Pages 33 to 36 Computing curriculum Year 5/6 Year B

## Computing Topic Map EYFS, KS1 and KS2 (Year A / Year B cycle)

The Islington Computing Scheme **units** of work are listed below for KS1 and KS2. In EYFS, we cover computing knowledge, skills and vocabulary through our **topics** and computing **mini-themes** and **computing-related opportunities**.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
2-Plus	Topic: All About Me	Topic: Nursery Rhymes	Topic: Favourite Stories	Topic: Transport	Topic: Down at the Farm	Topic: Under the Sea
	Computing-related	Computing-related	Computing-related	Computing-related	Computing-related	Computing-related
	opportunity 1:	opportunity 2: Listening	opportunity 3: Photos /	opportunity 4:	opportunity 5:	opportunity 6:
	Technology we use at school and home	to music through technology	Reading favourite stories	Mechanical toys	Mechanical toys	Transporting water
Nursery	Topic: Marvellous Me	Topic: Building & Construction	Topic: Making Music	Topic: Pirates	Topic: Shopping	Topic: Pets
(Year A)		Construction				
	Computing-related	Computing-related	Computing-related	Computing-related	Computing-related	Computing-related
	opportunity 1: Photos / Class Dojo	opportunity 2: Technological	opportunity 3: Recording and playing back music	opportunity 4: Cause and effect materials	opportunity 5: Toy tills	opportunity 6: Remote
	Class Dojo	construction toys	performances	(floating/sinking, boats,	and scanners / Visiting the shop	control toys / Bee-Bots
			<b>,</b>	telescopes)		
Nursery	Topic: Marvellous Me	Topic: Building &	Topic: Songs & Rhymes	Topic: Dinosaurs	Topic: People Who Help	Topic: On Safari
(Year B)		Construction			Us	
	Computing-related	Computing-related	Computing-related	Computing-related	Computing-related	Computing-related
	opportunity 1: Photos /	opportunity 2:	opportunity 3: Recording	opportunity 4: Recording	opportunity 5: Emergency	opportunity 6: Remote
	Digital self-portrait drawings	Technological construction toys	and playing back music performances	and playing back small- world play scenes	vehicles / Walkie-talkies	control toys / Bee-Bots
Reception	Topic: Who Am I?	Topic: Bears	Topic: What We Eat	Topic: Traditional Tales	Topic: Spring	Topic: Adventures
песерион						
	Mini-theme 1:	Mini-theme 2:	Mini-theme 3:	Mini-theme 4: Emails to	Mini-theme 5: Photos on	Mini-theme 6: Online
	Communication between home and	Everywhere Bear – photos from home /	Researching recipes / Finding out where our	and from the 3 Little Pigs / Filming story retellings	nature walks / Symmetrical drawing	maps of local area and faraway places
	school via Class Dojo /	Researching bear facts	food comes from	/ Tilling Story retellings	program - butterflies	laraway places
	Letter formation					
	practice on a screen					
Year 1 and year 2	Unit 1:	Unit 2 (two half-terms): I	Digital painting and digital	Unit 3: Data – Busy things	Unit 4: Bee-Bots – Moving	Unit 5: Busy things – early
(Year A)	Technology around us	writing – busy	things and JIT		a floor robot	code
Year 1 and year 2	Unit 1: a) The different	Unit 2: Multimedia and	Unit 3: Digital	Unit 4: Data - Pictograms	Unit 5: JIT turtle – Robot	Unit 6: Scratch Jr –
(Year B)	uses of computers	Digital writing	Photography		algorithms	Sequencing Animations
(Year B)	b) My Busy things	Digital Writing	riiotograpny		aiguritims	Sequencing Animations

Year 3 and year 4 (Year A)	Unit 1: Connecting computers	Unt 2: Creating media – Audio editing - Audacity	Unit 3: Google docs	Unit 4: Data and information – Branching database – J2Data	Unit 5: Code.org – coding	Unit 6: Sequencing with Scratch animation
Year 3 and year 4 (Year B)	Unit 1: Computing systems and networks – The internet	Unit 2: J2 Animate	Unit 3: Google slides	Unit 4: Data logging – using data loggers	Unit 5: Multiple scenes and dialogue	Unit 6: Repetition Scratch shapes
Year 5 and year 6 (Year A)	Unit 1: Computing systems and networks	Unit 2: Imovie – camera angles, frames and editing	Unit 3: Vector drawing – google drawings	Unit 4: Data and information – J2Databas	Unit 5: Selection in quizzes	Unit 6: Scratch – variables in games
Year 5 and year 6 (Year B)	Unit 1: History of computing	Unit 2: Creating web pages – Google sites	Unit 3: Creating media – 3D modelling tinkercard	Unit 4: Data and information – flat-file databases	Unit 5: Scratch – variables in games	Unit 6: Sensing – Microbit – step counter

# <u>Pakeman Primary School</u> <u>Computing curriculum – 2 Plus</u>

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Topic	All About Me	Nursery Rhymes	Favourite Stories	Transport	Down at the Farm	Under the Sea	
Computing-related opportunities	Technology we use at school and home	Listening to music through technology	Photos Reading favourite	Mechanical toys	Mechanical toys	Transporting water	
орронашие			stories				
Key skills (overarching)	<ul> <li>Seek to acquire basic skills in turning on and operating some digital equipment</li> <li>Operate mechanical toys, e.g., turn the knob on a wind-up toy or pull back on a friction car</li> <li>Play with water to investigate "low technology" such as washing and cleaning</li> <li>Use pipes, funnels and other tools to carry/transport water from one place to another</li> </ul>						
Key knowledge (overarching)	<ul> <li>Recognise technology that is used at home and in school</li> <li>Anticipate repeated sounds, sights and actions – e.g., when an adult demonstrates an action toy several times</li> </ul>						
Key resources	For independent use: old keyboards, cameras, remote controls, mechanical toys, headphones, mobile phones, calculators  To be used with adult support: iPad, camera, interactive whiteboard						
Key vocabulary		y used during the acad ile phone, light switch, n, switch	·	ge, TV, remote control,	toaster, kettle, microw	vave, button, flap,	

# <u>Pakeman Primary School</u> <u>Computing curriculum – Nursery</u>

Year A	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
Topic	Marvellous Me	Building &	Making Music	Pirates	Shopping	Pets			
		Construction							
Computing-related	Photos	Technological	Recording and	Cause and effect	Toy tills and	Remote control			
opportunities	Class Dojo	construction toys	playing back music	materials	scanners	toys			
			performances	(floating/sinking	Visiting the shop	Bee-Bots			
				boats, telescope)					
Key skills	<ul> <li>Show an inter</li> </ul>	est in technological toy	s with knobs or pulley	s, real objects such as	cameras, and touchscr	een devices such as			
(overarching)	mobile phone								
		making toys work by pre							
	•	Play with a range of materials to learn cause and effect, for example, make a string puppet using dowels and string to							
	suspend the p	• •							
Key knowledge		operate simple equipm	ent, e.g., turn on a CD	player, use a remote of	control, navigate touch	-capable technology			
(overarching)	with support								
		ormation can be retriev	red from digital device	s and the internet					
Key resources	For independent use:								
		as, remote controls, me	chanical toys, headph	ones, remote control t	oys, shopping till, mob	oile phones,			
	calculators.								
		h a mm a wh.							
	To be used with adult	cisupport: cive whiteboard, Bee-Bo	<b>^+</b>						
	irau, camera, interact	live willteboard, bee-bo							
Key vocabulary	Computing vocabular	y used during the acade	mic year:						
,	, ,	, <u> </u>	,						
	computer, iPad, mobi	le phone, light switch, v	vashing machine, fridg	ge, TV, remote control,	toaster, kettle, microv	vave, Bee-Bot,			
	shopping till, scanner,	barcode, button, flap,	light, push, press, turn	, switch, record					

# <u>Pakeman Primary School</u> <u>Computing curriculum – Nursery</u>

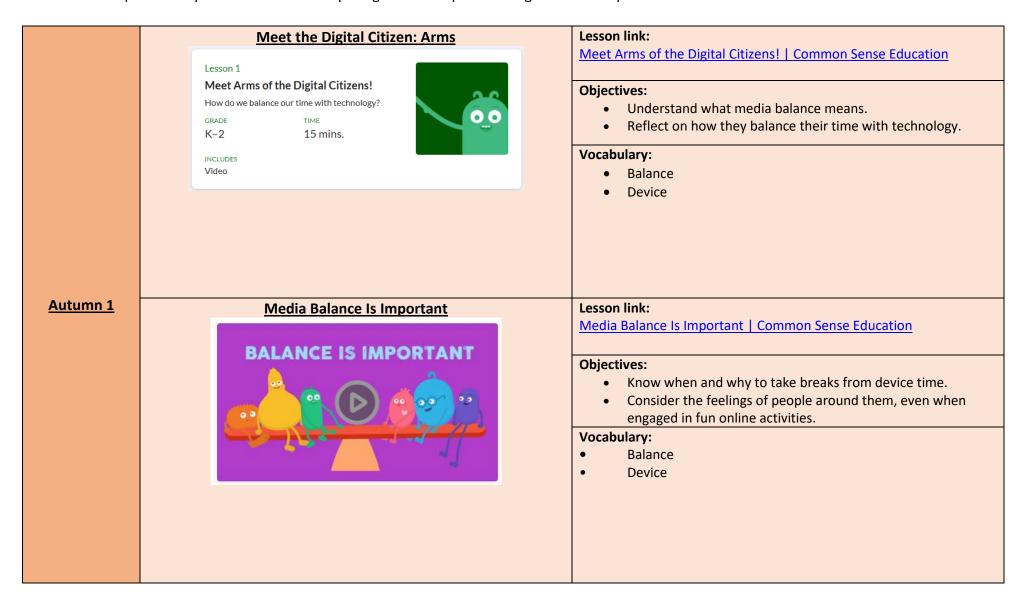
<u>Year B</u>	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Topic	Marvellous Me	Building &	Songs & Rhymes	Dinosaurs	People Who Help	On Safari	
		Construction			Us		
Computing-related	Photos	Technological	Recording and	Recording and	Emergency vehicles	Remote control	
opportunities	Digital self-portrait	construction toys	playing back music	playing back small-	Walkie-talkies	toys	
	drawings		performances	world play scenes		Bee-Bots	
Key skills (overarching)	<ul> <li>Show an interest in technological toys with knobs or pulleys, real objects such as cameras, and touchscreen devices such as mobile phones and tablets</li> <li>Show skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements, or new images</li> <li>Play with a range of materials to learn cause and effect, for example, make a string puppet using dowels and string to</li> </ul>						
	suspend the puppet						
Key knowledge (overarching)	<ul> <li>Know how to operate simple equipment, e.g., turn on a CD player, use a remote control, navigate touch-capable technology with support</li> <li>Know that information can be retrieved from digital devices and the internet</li> </ul>						
Key resources	For independent use:		and it diff the trace	3 dire ille ille			
<b>,</b> 1000 <b></b> 1000	old keyboards, cameras, remote controls, mechanical toys, headphones, remote control toys, walkie-talkies, mobile phones, calculators  To be used with adult support: iPad, camera, interactive whiteboard, Bee-Bot						
	,	,					
Key vocabulary	Computing vocabulary used during the academic year:						
	computer, iPad, mobile phone, light switch, washing machine, fridge, TV, remote control, toaster, kettle, microwave, Bee-Bot, walkie-talkie, button, flap, light, push, press, turn, switch, record						

# <u>Pakeman Primary School</u> <u>Computing curriculum – Reception</u>

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Topic	Who Am I?	Bears	What We Eat	Traditional Tales	Spring	Adventures	
Computing-related mini themes	Communication between home and school via Class Dojo	Everywhere Bear – photos from home  Researching bear facts	Researching recipes Finding out where our food comes	Emails to and from the 3 Little Pigs Filming story retellings	Photos on nature walks Symmetrical drawing program -	Online maps of local area and faraway places	
	Letter formation practice on a screen		from		butterflies		
Key skills (overarching)	<ul> <li>Complete a simple program on electronic devices</li> <li>Use ICT hardware to interact with age-appropriate computer software</li> <li>Create content such as a video recording, stories, and/or draw a picture on screen</li> </ul>						
Key knowledge (overarching)	Use the inter	al literacy skills by bein net with adult supervisi k about the different fa	ion to find and retriev	e information of intere	st to themself		
Key resources	For independent use: old keyboards, laptop/screen, cameras, remote controls, mechanical toys, headphones, remote control toys, walkie-talkies, mobile phones, calculators  To be used with adult support: iPad, camera, interactive whiteboard, Bee-Bot						
Key vocabulary	Computing vocabulary used during the academic year:  computer, iPad, mobile phone, light switch, washing machine, fridge, TV, remote control, toaster, kettle, microwave, Bee-Bot, walkie-talkie, internet, search, online, Wi-Fi, safety, button, flap, light, push, press, turn, switch, record						

#### **Common Sense Education Lessons – Reception**

Children in reception take part in a series of computing lessons to promote digital citizenship.



#### **Meet the Digital Citizen: Heart**

Lesson 2

#### Meet Heart of the Digital Citizens!

What are ways you can be kind online?

GRADE

K-2 15 mins.

INCLUDES Video



#### Lesson link:

Meet Heart of the Digital Citizens! | Common Sense Education

#### **Objectives:**

- Understand what it means to be respectful and kind to others.
- Reflect on how they can be kind online.

#### Vocabulary:

- Online
- Respect

#### Autumn 2

#### **Pause for People**



#### **Lesson link:**

Pause for People | Common Sense Education

#### **Objectives:**

- Learn why it's important to be aware and respectful of people while using devices.
- Learn the Pause, Breathe, Finish Up routine as a selfregulation strategy for transitioning from technology to faceto-face interactions.

#### Vocabulary:

- Pause
- Device
- Frustrated

#### **Meet the Digital Citizen: Guts**

Lesson 3

#### Meet Guts of the Digital Citizens!

How do you stay safe online?

GRADE K-2

15 mins.

INCLUDES Video



#### **Lesson link:**

Meet Guts of the Digital Citizens! | Common Sense Education

#### **Objectives:**

- Understand what being safe on the internet means.
- Reflect on ways to keep their passwords and information safe.

#### Vocabulary:

- Caution
- Internet

#### Spring 1

#### Safety in My Online Neighbourhood



#### **Lesson link:**

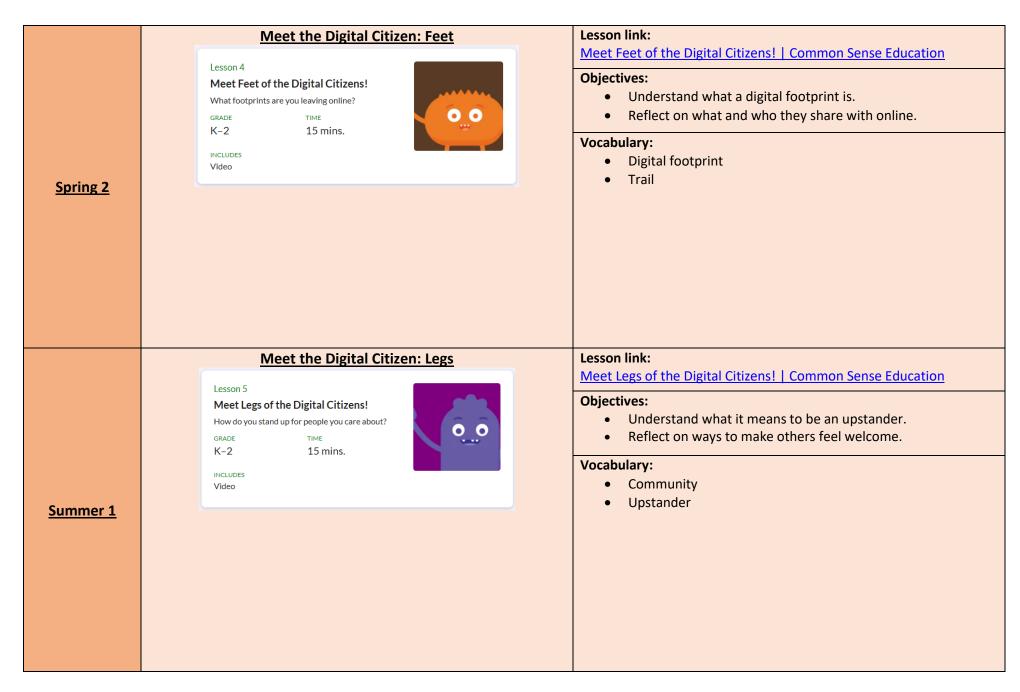
Safety in My Online Neighborhood | Common Sense Education

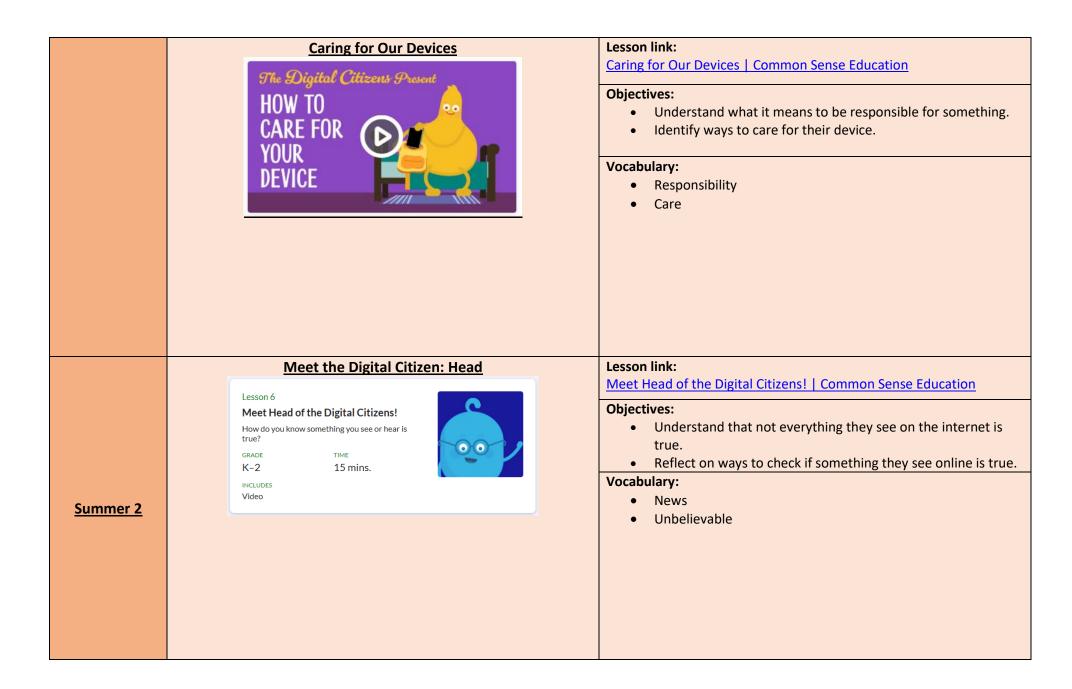
#### **Objectives:**

- Discover that the internet can be used to visit faraway places and learn new things.
- Compare how staying safe online is similar to staying safe in the real world.
- Explain rules for traveling safely on the internet.

#### Vocabulary:

- Online
- Website
- App





# Pakeman Primary School Computing curriculum - Year 1/2

<u>Year A</u>	<u>Autumn 1</u>	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
Topic	Toys	Heroes	Kings and Queens	Celebrations	Classroom adventures	Minibeasts		
Computing unit of work	Unit 1: Technology around us	Unit 2: Digital painting and JIT	nd digital writing – busy things	Unit 3: Data – Busy things	Unit 4: Bee-Bots – Moving a floor robot	Unit 5: Busy things – early code		
Key skills (overarching)	<ul> <li>Keep perso</li> <li>Information Technology</li> <li>Use basic so</li> <li>Understand</li> <li>Computer Science</li> <li>Understand</li> </ul>	nal information private and ology oftware to create, store, and how technology is used by the basic algorithms and prog	e importance of using technology safely and respectfully al information private and understand safe digital practices					
Key knowledge (overarching)	<ul> <li>Understand that information can be presented digitally (e.g., text, images, sounds)</li> <li>Know that computers follow instructions (algorithms) to complete tasks</li> <li>Recognise the importance of staying safe when using technology</li> <li>Understand that digital devices communicate through networks (e.g., the internet)</li> <li>Know that algorithms must be precise and can solve simple problems</li> <li>Recognise the difference between input and output in digital devices</li> </ul>							
Key skills (Topic specific)	Can identify examples of technology in the classroom.	, ,	online using their own log in.  n a swiping action (finger) or	Can group similar objects in more than one way.	Can explain what an algorithm is.	Code a sequence of instructions using basic online software		

	Can name the	Can use the mouse to click and drag	Can record how	Can spot errors	Test my code by
	main parts of a	3.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5	many objects are	and try to fix	running the
	computer;	Can locate and use the 'spacebar', 'shift', 'enter' and	in a group	them.	program
	Screen, keyboard,	'backspace' on a keyboard to carry out the required	a 8. oap	c.i.c.iii	p. 08. u
	mouse, touch	actions.	Can compare	Can use controls	Try to fix errors
	pad.	decions.	groups of objects	to move a toy	(debugging)
	Page	Know which tool I need for colouring and can select it	8. oups of objects	to move a toy	(465488118)
	Can switch on and	Throw which took theed for colouring and can select it	Can use Busy	Use command	Use drag and drop
	log into a	Know how to reset my canvas	things to create	symbols to write	to move objects.
	computer using	Nilow now to reset my curious	picograms	an algorithm	to move objects.
	the power button	Know how to save my work	picograms	arraigoritiiii	Snap blocks
	and their login	Know now to save my work		Can program a	together to code
	details.	Know how to type words with my keyboard		Bee-Bot	the algorithm
	details.	This is now to type words with my keybodid		Dec Dot	the digorithm
	Can identify rules	Know how to type sentences with my keyboard			
	to keep us safe	Triow now to type sentences with my reybodia			
	when using	Know how to retrieve my work after saving.			
	technology by	Know now to retrieve my work arter saving.			
	keeping personal				
	information				
	private.				
Key knowledge	I know that the	I know when I move the mouse, the curser of the screen	I know I can	I know that an	I know that I can
(Topic specific)	computer,	moves in the same motion.	group objects by	algorithm is a set	use my mouse to
(Topic specific)	Interactive white	moves in the same motion.	their similarities,	of detailed	click on the arrow
	board and the	I know if I press down the right button on the mouse,	such as shape,	instructions which	keys, this will
	clock are all	while my curser is on an object, the object will move	colour and size.	lead to an	move my object in
	examples of	wherever I move my mouse.	colour and size.	outcome.	the direction I
	technology in the	wherever rinove my mouse.	I also know that	outcome.	have chosen.
	classroom.	I know when I unclick the right button, the object will then	these objects may	I know that when	nave chosen.
	Classicoiii.	be still in its new position.	fit into more than	I press the arrow	I know I can then
	I know that the	be still lifted position.	one group e.g. a	buttons, the robot	click on a
	power switch	I know if I click my mouse on different tool icons the	red square could	will move in the	different arrow to
	turns on and off	curser changes to that tool.	go into a group	same direction as	change the
	the	carser changes to that took	for squares and	the arrows.	direction of my
	laptop/computer.	I know that if I click on the blue disc icon it saves my work.	red shapes.	the arrows.	object.
	aptop/computer.	TRAIDW CHACH TELLOW ON THE DIGE GISC ICOIT IT SAVES HIS WOLK.	icu siiapes.		object.

	I know I must keep my login details to myself.	will reset to blank.		I know there will be a different amount of objects in each group.  I know that data is another word for information.  I know that a 'data set' is a collection of related data.	I can draw arrows to show a route that I want the robot to follow. I know that this is an algorithm.	I know I can sequence a route for my object to follow by clicking different arrows.  I know if I press 'run' my code will start and move my object according to my algorithm.
Key vocabulary	computer technology responsibly safe keyboard screen mouse power button laptop touch pad	cursor swipe click drag drop spacebar backspace enter return key delete	undo clear save font text page layout template word bank open file	object label group search image properties least value shape data	algorithm step instruction mistake error floor robot command turn mistake clear	sequence order code execute/run program forward turn debug predict block
Week 1	LO: To identify examples of technology in the classroom and how it helps us	LO: To switch on, log in and access online resources and work (DL)	LO: To add and remove text on a computer	LO: To label, describe and group objects in different ways	LO: To create rules for using technology responsibly	LO: To show that an algorithm is series of commands can be joined to achieve a given purpose
Week 2	LO: To identify a computer and its main parts	LO: To use the mouse/trackpad to move the cursor and interact with my computer (DL)	LO: To explain my choices when using tools and changing text	LO: To group and count objects with the same properties	LO: To explore and predict what robot commands will do	LO: To use logical reasoning to predict what the next step will do

Week 3	LO: To create rules for using technology responsibly	LO: To use the keyboard to interact with the computer and type	LO: To use a digital camera to take a picture	LO: To compare groups and answer questions about groups of objects	LO: To combine four direction commands to make sequences and predict their outcome	LO: To code a sequence of instructions using online software
Week 4	N/A	LO: To use online tools effectively to paint a picture	LO: To change digital images using filters	LO: To interpret a pictogram to compare groups and answer questions	LO: To read and write simple algorithms	LO: To run and test the code to fix errors
Week 5	N/A	LO: To use a computer to write	LO: To purposefully create an online document that combines pictures and text	LO: To collect, create and interpret data using a pictogram.	LO: To plan, code, test and debug a simple program	LO: To plan, code, test and debug algorithms for a program
Week 6	N/A	N/A	N/A	N/A	N/A	N/A

# Pakeman Primary School Computing curriculum - Year 1/2

<u>Year B</u>	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Topic	This is Me!	Animals	Explorers	The Circus	Inventions	Holidays	
Computing unit of work	Unit 1: a) The different uses of computers b) My Busy things	Unit 2: Multimedia and Digital writing	Unit 3: Digital Photography	Unit 4: Data - Pictograms	Unit 5: JIT turtle – Robot algorithms	Unit 6: Scratch Jr – Sequencing Animations	
Key skills (overarching)	Digital Literacy  Recognise the importance of using technology safely and respectfully  Keep personal information private and understand safe digital practices  Information Technology  Use basic software to create, store, and share digital content  Understand how technology is used beyond school (e.g., at home or in the community)  Computer Science  Understand basic algorithms and programming concepts  Create simple programs and debug basic errors						
Key knowledge (overarching)	<ul> <li>Understand that information can be presented digitally (e.g., text, images, sounds)</li> <li>Know that computers follow instructions (algorithms) to complete tasks</li> <li>Recognise the importance of staying safe when using technology</li> <li>Understand that digital devices communicate through networks (e.g., the internet)</li> <li>Know that algorithms must be precise and can solve simple problems</li> <li>Recognise the difference between input and output in digital devices</li> </ul>						
Key skills (Topic specific)	Can explain how to use information technology responsibly.	Can use the keys to type words and sentences	Can recognise different devices that can take a photograph	Can record data in a tally chart  Can compare totals	Can give and follow instructions  Can use words to give directions	Can use motion blocks to move a sprite	

	Can use my log in to log into Busy things  Can access my pinned activities  Can save and retrieve my work from 'files'	Can select a writing template  Can select a font colour and size  Can save and retrieve work.  I can click on a link to open a website.  Can use the back arrow and scroll up and down to view information.	Explain the process of taking a photograph  Can explain the difference between landscape and portrait  Can talk about what is good/bad about a photograph and retake it to improve.	Can enter data onto a computer  Can use picograms to answer simple questions about objects  Can explain what the picogram shows	Can explain what an algorithm is.  Can create an algorithm to make my object move  Can debug my algorithm	Can predict and test what each block does  Can begin a sequence using a green flag  Can end a sequence with a red block  Can select different backgrounds
Key knowledge (Topic specific)	I know that I should not share my personal information online.  I know my login is only for me and no one else has the same one.  I know that when I login to mybusythings, I select 'My class pinned activities' to find the work I need to do.	I know that if I press on letters on the keyboard, they will appear on the screen.  I know that the space bar creates a space between words.  I know that if I press the backspace key, it will delete the typing.  I know I can click on different sized 'a' icons and that will	I know that a camera, phone, ipad etc can take a photograph.  Using an ipad, I know that the camera icon, opens a camera function. I know that when I point the ipad at an object, I can press the button and it will take a picture.	I know that a tally has five lines used to count objects. Four lines vertically and one line across. This equals five.  I know that when I click on an object with my mouse, it adds to my pictogram.  I know that if I click on the + it will increase the amount of objects.	I know that an algorithm is a set of detailed instructions which lead to an outcome.  I know that if I give an instruction (go forward), my object will go in that direction.  I know that if I select a sequence of instructions (an algorithm) with my mouse, my object will follow my instructions exactly.	I can click on arrow blocks with my mouse and my sprite will move in that direction (up, down, left and right).  I know if I click a green flag block, it will start a sequence.  I know I can use a red block to end a sequence.  I know if I click on the backgrounds icon, I can use my

Key vocabulary	If I click the blue disc icon it will save my work.	change the size of the text.	device	I know if I click on the – it will decrease the amount of objects.	I know a sprite is the name for the object that is being moved.	mouse to click the background I want.
Rey Vocabulary	computer internet online safe pinned retrieve device messages log in	back arrow bookmark browser shift button page layout template multimedia save	camera capture image digital landscape portrait framing compose subject	less than organise tally chart data object votes total picogram	step sequence command debug mistake distance undo redo edit	project character blocks sprite commands motion programming background tools
Week 1	LO: To recognise the uses and features of information technology	LO: To identify information technology beyond school and in the home	LO: To recognise and use digital devices to take photographs	LO: To recognise that we count and compare objects using tally charts	LO: To describe a series of instructions as a sequence	LO: To explore how commands can be connected to create simple sequences
Week 2	LO: To identify information technology beyond school and in the home	LO: To use a bookmark or a link to access a web page and find information to answer questions	LO: To identify and make choices when taking a photograph	LO: To recognise that objects can be represented as pictures.	LO: To use logical reasoning to create and predict the outcome of a simple program (series of commands)	LO: To explain that a sequence of commands has an outcome
Week 3	LO: To access my Busy Things	LO: To save and retrieve what I create	LO: To describe what takes a good photograph	LO: To create a pictogram	LO: To design and create an algorithm for a program to solve a given task.	LO: To create an animation using a given design

Week 4	LO: To save and retrieve my work	LO: To purposefully select and use templates to format my work as an online document for a given task	LO: To recognise that photos can be changed (edited)	LO: To select objects by attribute and make comparisons	LO: To design and create an algorithm for a program to solve a given task.	LO: To design and create different parts of my animation
Week 5	LO: To respond to messages	LO: To review, refine and publish my work online	LO: To use my photography skills to create, improve and edit a collection of photographs/video	LO: To use the pictograms to help me make comparisons	LO: To evaluate and provide feedback on a program	LO: To design, create a program and test it to decide how it can be improved
Week 6	N/A	N/A	N/A	N/A	N/A	N/A

# <u>Pakeman Primary School</u> <u>Computing curriculum - Year 3/4</u>

Year A	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
Topic	Stone Age to Iron Age	Journeys	Anglo Saxons	Mountains	Time-travellers	Rainforests		
Computing unit of work	Unit 1: Connecting computers	Unt 2: Creating media – Audio editing - Audacity	Unit 3: Google docs	Unit 4: Data and information – Branching database – J2Data	Unit 5: Code.org – coding	Unit 6: Sequencing with Scratch animation		
Key skills (overarching)	Digital Literacy  Develop a deeper understanding of online safety, data security, and responsible online behaviour  Learn how to evaluate online content for trustworthiness and appropriateness  Information Technology  Use digital tools to retrieve information, present content, and collaborate online  Understand how to responsibly use technology and its societal impact  Computer Science  Design and write programs with logical structures, using repetition (loops) and selection (if statements)  Troubleshoot and debug programs to ensure correct operation							
Key knowledge (overarching)	<ul> <li>Understand how digital content is created, stored, and shared</li> <li>Know that programs use sequences of instructions to complete tasks</li> <li>Begin to understand how data is represented digitally (e.g., numbers, text, images)</li> <li>Know that networks (e.g., the internet) consist of interconnected devices</li> <li>Understand the role of search engines and how they retrieve information</li> <li>Begin to understand basic concepts of hardware (e.g., input, processing, storage, and output)</li> </ul>							
Key skills (Topic specific)	Can identify input and output devices	Can use a device to record and playback sound	Can access google classroom using their log in	Can use a branching database to identify objects	Can drag and drop blocks of code	Can identify the sequence and that order is important		

	Can follow a process  Can model a simple process  Can explain the role of a switch, server and wireless access point.	Can suggest how to improve their recording  Can save a recording as a file  Can edit sections of an audio recording	Can navigate the google classroom and to assignments  Can respond to feedback and 'turn in' my work.	Can explain how a branching database works  Can create a group of objects within an existing group  Can explain why it is helpful for a database to be well structured.	Can translate movements into sequence algorithms  Can run a program to test it  Can solve coding puzzles using repetition	Can use an algorithm to code  Can test the code and fix  Can spot and use patterns in code
Key knowledge (Topic specific)	I know that you need to input information into a device, the device then processes the information and that will come out as an output.  I know a computer network is made up of a number of devices.  I know a server can store things on a network, like videos and documents.	I know that a microphone records sound and is an input device.  I know that headphones or speakers will play the sound. These are output devices.  I know that I need to select 'save as' from the 'file' menu to save my work.  I know I can select my waveform and press 'play' to hear my audio.	I can click the 'waffle' in the top right corner of google chrome to access google classroom.  I know that when I enter my personal login details, it takes me to my personal google classroom.  I know if I click on 'My assignments' I will be taken to the work my teacher has set for me.  If I click 'turn in' my work will be sent to my teacher to check and mark.	I know I need to use closed questions for a branching database (Yes/no answers)  I know that when I answer a question, I follow the answer branch to get to the next question.  I know that similar things go in the same group for example all green shapes.	I know that when I right click with the mouse on a block of code, it will allow me to move it to another part of the screen.  I know that each movement is represented by a block of code, for example forward makes the sprite move one place forward.  I know the code blocks need to be attached in a column for them to work.	I know that the code blocks will work in the order I put them.  I know that when I press 'run' the code will do what I have programmed it to do.  I know if my sprite does not do what I wanted, then I need to fix my code.

Key vocabulary	digital device input output process operating system components switch server wireless files	audio microphone speaker headphones input device output device sound podcast trim align	word processor editor underline italics font highlight align tools insert paste menu	data branching database attribute sorting grouping object value similarities differences branch	commands blocks run/execute debug loops repeat patterns sequence persistence collaboration	algorithm sequence command parsons run test debug repetition pattern improve efficient
Week 1	LO: To explain how digital devices function	LO: To identify that sound can be digitally recorded	LO: To recognise and use Titles, text and layout effectively to convey information on Google Docs	LO: To create yes/no questions and use a branching database	LO: To explore a new programming environment and identify that each sprite is controlled by the commands chosen	LO: To plan and draw a program to draw a shape on screen
Week 2	LO: To explore and identify what parts make up a digital device	LO: To use a digital device to record sound	LO: To create and edit a fact file using titles, text and images	LO: To construct an offline (unplugged) simple branching database	LO: To recognise that a program has a start and a sequence of commands can have an order	LO: To use and modify a program to draw shapes
Week 3	LO: To explore how digital devices can be connected	LO: Creating and storing digital recordings as a file.	LO: To create and explain how different layouts or styles suit different audiences and purposes	LO: To construct an online (plugged) simple branching database using J2Branch	LO: To identify patterns and use loops to solve coding challenges	LO: To use count- controlled loops (repetition) to simplify my program
Week 4	LO: To recognise the physical components of a network	LO: To edit digital recordings to change audio	LO: To apply my multimedia and digital writing skills to create a document using G Suite (Cloud Publishing)	LO: To construct a branching database using J2Branch	LO: To use loops to simplify the code and to help me debug my code	LO: To design and create programs to draw shapes using count controlled loops (repetition)

Week 5	N/A	LO: To show that different types of audio can be combined and played together:	LO: Create your document - continued	LO: To construct a branching database	LO: To code, test and debug a project from a task description	LO: To compare different ways of coding
Week 6	N/A	N/A	N/A	N/A	N/A	N/A

# <u>Pakeman Primary School</u> <u>Computing curriculum - Year 3/4</u>

Year B	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Topic	Ancient Egypt	Energy and power	Romans	Active Planet	Chocolate	Europe	
Computing unit of work	Unit 1: Computing systems and networks – The internet	Unit 2: J2 Animate	Unit 3: Google slides	Unit 4: Data logging – using data loggers	Unit 5: Multiple scenes and dialogue	Unit 6: Repetition Scratch shapes	
Key skills (overarching)	Digital Literacy  Develop a deeper understanding of online safety, data security, and responsible online behaviour  Learn how to evaluate online content for trustworthiness and appropriateness  Information Technology  Use digital tools to retrieve information, present content, and collaborate online  Understand how to responsibly use technology and its societal impact  Computer Science  Design and write programs with logical structures, using repetition (loops) and selection (if statements)  Troubleshoot and debug programs to ensure correct operation						
Key knowledge (overarching)	<ul> <li>Understand how digital content is created, stored, and shared</li> <li>Know that programs use sequences of instructions to complete tasks</li> <li>Begin to understand how data is represented digitally (e.g., numbers, text, images)</li> <li>Know that networks (e.g., the internet) consist of interconnected devices</li> <li>Understand the role of search engines and how they retrieve information</li> <li>Begin to understand basic concepts of hardware (e.g., input, processing, storage, and output)</li> </ul>						
Key skills (Topic specific)	Can describe the internet as a network of networks.	Can use the mouse to move objects slightly.	Can change the background theme on Google slides.	Can use a data set to answer questions.	Can use given blocks to code a program.	Can write an algorithm to draw a square.  Can spot and use patterns in code.	

	Know how information is shared across the internet.  Know how the internet allows us to view the world wide web.	Can discuss examples of stop animation in the real world.  Know that animation is a sequence of drawings or photographs.	Can create new slides and change the layout.  Can upload an image from the computer to add to the slides.  Can create a transition between slides.	Can explain that sensors are input devices.  Can identify a suitable place to collect data.  Can import a data set.  Can use a data logger to collect data.	Can use an algorithm to code.  Can plan an algorithm for dialogue.	Can write an algorithm to draw a square using loops.  Can use loops to draw shapes.
Key knowledge (Topic specific)	I know the internet is a global network of computers.  I know a server is a computer that manages the network and stores files.  A device that passes information between two computer networks	I know that animation is a sequence of drawings or photographs.  I know that I need to make slight changes to each frame to make my animal move.  I know that Wallace and Gromit is an example of a stop frame animation.	I know that if I click 'Backgrounds' I can select a colour or picture for the background of my slides.  I know that the 'Insert' menu gives me options to add to my slides, for example text, shapes, pictures.  I know that if I save a picture as a file on my computer, I can use the 'upload' function to put it on my slides.	I know that you can use a data set to answer questions.  I know that sensors are input devices.  I know that I need to plug in the microbit to my computer for it to receive the data.	I know that an Algorithm is a clear set of step-by-step instructions which a computer can use to solve a problem.  I know that code is a set of instructions written in a specific language to tell a computer what to do.	I know that the order of my instructions is important.  I know that I can repeat code to make a pattern.  I know that a repeated code is called a loop.

Key vocabulary	internet	stop motion	slide	data	algorithm	algorithm
,,	network	animation	layout	table	code	sequence
	router	frame	background	layout	sequence	command
	network security	background	word art	input device	multiple	distance
	server	image	bold	sensor	concurrent	direction
	WAP (wireless access	animate	insert	data logger	Parsons	explain
	point)	onion skin	format	logging	sprites	prediction
	website	speed	copyright	interval	stage	modify
	browser	improve	resize	data point	design	pattern
	web page	test	paste	analyse	effect	repetition
	routing	test	puste	anaryse	Circui	repetition
	Touting					
Week 1	LO: To describe how	LO: To identify, modify	LO: To use themes,	LO: To explain that	LO: To use my	LO: To plan and draw a
	networks physically	and explain how to	Slide Layout	data gathered over	programming	program to draw a
	connect to other	create stop motion	and Word Art within	time can be used to	skills to predict,	shape on screen
	networks:	animation	Google Slides	answer questions	run, investigate	'
					and modify a	
					parsons	
					problem	
					problem	
Week 2	LO: To recognise how	LO: To discuss and	LO: To insert, edit	LO: To use a digital	LO: To plan,	LO: To use and modify
Trock 2	networked devices	explain what makes a	and format images	device to collect data	make, run and	a program to draw
	make up the internet.	good stop motion	within Google Slides.	automatically	debug a	shapes
	make up the internet.	animation	within Google shaes.	accomatically	program on	Shapes
		ammation			Scratch	
Week 3	LO: To outline how	LO: To plan and create	LO: To change	LO: To explain that a	LO: To evaluate	LO: To use count-
Trock o	websites can be shared	a stop motion	composition,	data logger collects	and improve my	controlled loops
	via the World Wide	animation	animate images and	'data points' from	program by	(repetition) to simplify
	Web	ammation	create slide	sensors over time	adding sound	my program
	VVCD		transitions within	Jensors Over time	and Stage	my program
			Google Slides		and Stage	
Week 4	LO: To describe how	LO: To review and	LO: To explore ways	LO: To use data	LO: To	LO: To design and
VVCCK 4	content can be added	improve an animation	of presenting Google	collected over a long	decompose and	create programs to
	content can be added	improve an animation	slides	conected over a long	plan a story	draw shapes using
			Silues		piaii a Stury	uraw shapes using

	and accessed on the World Wide Web:			duration to find information	dialogue between two characters on Scratch	count-controlled loops (repetition)
Week 5	N/A	N/A	N/A	LO: To identify the data needed to answer questions	LO: To Make/create and discuss ways of improving an algorithm on Scratch	LO: To compare different ways of coding
Week 6	N/A	N/A	N/A	LO: To use collected data to answer questions	N/A	N/A

# <u>Pakeman Primary School</u> <u>Computing curriculum - Year 5/6</u>

Year A	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Topic	Ancient Greece	Weather and climate	Vikings	Antarctica	Windrush	Citizens of the World	
Computing unit of work	Unit 1: Computing systems and networks	Unit 2: iMovie – camera angles, frames and editing	Unit 3: Vector drawing – google drawings	Unit 4: Data and information – J2Databas	Unit 5: Selection in quizzes	Unit 6: Scratch – variables in games	
Key skills (overarching)	<ul> <li>Digital Literacy         <ul> <li>Understand the long-term impact of digital footprints and online reputation</li> <li>Recognise the importance of online privacy and security and know how to report concerns</li> </ul> </li> <li>Information Technology         <ul> <li>Create, analyse, and present data using a variety of software tools</li> <li>Collaborate digitally using cloud-based tools, sharing and editing content effectively</li> </ul> </li> <li>Computer Science         <ul> <li>Design, implement, and refine complex programs, using algorithms, variables, loops, and conditionals</li> <li>Apply logical reasoning to solve problems and debug programs</li> </ul> </li> </ul>						
Key knowledge (overarching)	<ul> <li>Understand how more complex algorithms (e.g., loops and conditionals) can solve problems</li> <li>Know that data can be organised and analysed using digital tools (e.g., spreadsheets)</li> <li>Understand the basics of computer networks, including servers and clients</li> <li>Know how computer systems (hardware and software) work together to execute tasks</li> <li>Understand the concept of binary and its role in representing data in computers</li> <li>Recognise the ethical and environmental impacts of computing and technology use</li> </ul>						
Key skills (Topic specific)	Can complete a web search to find specific information	Can identify and name digital devices that record sound and video.	Can explain that vector drawings are made using shapes	Can explain how information can be recorded.	Can explain examples of everyday selection	Can identify variables in everyday situations	

	Can refine a search to be more accurate  Can explain why we need tools to find things online  Can explain that search results are ordered.	Can locate and identify the working features of a digital device that can record video  Can plan a video project using a story board	Can identify the main drawing tools and know what they do  Know how to resize, rotate or move objects  Know that they can layer objects to	Can explain what a 'field' and a 'record' is in a database  Can group information to answer questions	Can begin to code different types of selection  Can explain what a variable is  Can use an algorithm to code  Can use two types of	Can read sections of code and predict what it will do  Can test my predictions by running a code  Can make changes to a code to achieve specific results
		Can list some of the features of an effective video	change the drawing		selection blocks	
Key knowledge (Topic specific)	I know that a search engine is a program that finds webpages on the web.  I know that if I input a key word or words, a search engine will	I know that a camera function on a phone, iPad and computer can all record sound and video.  I know that a recording in a silent	I know that the 'shapes' menu will allow me to draw a shape I have chosen.  I know that I can use the mouse to move or change the size of	I know information is called data and this can be any information that is collected.  I know that a database has	I know I use the 'ask' block of code to input a question for my quiz.  I know the 'answer' block will store answers in the code.	I know a variable in 'real life' is something that can change. For example, the weather, the price of a bag of crisps, even your mood.
	use those to find what I have asked for.  I know that a search will be more effective if I type in more information to search with.	room will produce the best sound on a video.  I know that the 'zoom' function will make the frame smaller on a video.	my shapes.  I know that each shape creates a new layer to my drawing. I know they can be put 'on top' of each other.	'records' for each group of information.  I know a 'field' in a database is a square in a record, which holds one piece of information.	I know a variable in code is a piece of information that can change depending on the situation. For example, with this unit, the answer to a question would be a variable.	I know that 'debug' means to fix anything which isn't working in my code. I know that I can change the blocks of code to get a different outcome.
Key vocabulary	search search engine index crawler	video audio camera panning	vector tools object toolbar	database information data record	selection condition action loop	variable PRIMM prediction test

	bot	close up	resize	field	conditional start	run
	ranking	storyboard	rotate	order	conditional switch	investigate
	ordering	preview	duplicate	sort	text input	make and modify
	links	technique	layers	search	text output	forever
	algorithm	angle	reflection	criteria	variable	sequence
	content	shot	pixelated	value	operator	command
	content	31101	pixelatea	Value	σρειαιοι	Communa
Week 1	LO: To identify how	LO: To identify and	LO: To recognise and	LO: To use a form to	LO: To role play and	LO: To explain and
	to use a search	use digital devices to	use drawing tools	record information	write conditional	use everyday
	engine	record video	within Google	and create a paper-	selection	variables in
		effectively	Drawings	based database		algorithms
Week 2	LO: To describe how	LO: To use a	LO: To create a	LO: To compare	LO: To explore	LO: To modify and
	search engines	storyboard to plan a	vector drawing by	paper and	selection code	make programmes
	select results	video	combining shapes	computer-based		including variables
				databases		on Scratch
Week 3	LO: To explain how	LO: To capture video	LO: To use tools,	LO: To outline how	LO: To plan and	LO: To design a
	search results are	using a digital device	layers, and objects	grouping and then	create a Maths Quiz	game program on
	ranked		to achieve a desired	sorting data within a	program	Scratch which
			effect when creating	database allows us		includes variables
			Vector Drawings	to answer questions		
Week 4	LO: To recognise	LO: To identify that	LO: To	LO: To explain that	LO: To finish coding	LO: To make (code)
	why the order of	video can be	independently	tools can be used to	and improve a	my games on
	results is important,	improved through	design, create and	select specific data	Maths Quiz program	Scratch including
	and to whom	reshooting and	evaluate a vector	within a database		variables
		editing	drawing			
Week 5	LO: To recognise	LO: To present,	N/A	LO: To explain that	LO: To evaluate and	LO: To investigate
	how we	evaluate and discuss		computer programs	give feedback about	and evaluate my
	communicate using	what makes an		can be used to	a Maths Quiz	variables in Scratch
	technology	effective video		compare data	Program	game
				visually		
Week 6	N/A	N/A	N/A	LO: To apply my	N/A	N/A
				knowledge of a		
				database to ask and		
				answer real-world		
				questions		

# <u>Pakeman Primary School</u> <u>Computing curriculum - Year 5/6</u>

<u>Year B</u>	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	World War 2	Marvellous Maps	The Sikh Empire	South America	London	Food and farming
Computing unit of work	Unit 1: History of computing	Unit 2: Creating web pages – Google sites	Unit 3: Creating media – 3D modelling tinkercard	Unit 4: Data and information – flat-file databases	Unit 5: Scratch – variables in games	Unit 6: Sensing – Microbit – step counter
Key skills (overarching)	Digital Literacy  Understand the long-term impact of digital footprints and online reputation Recognise the importance of online privacy and security and know how to report concerns  Information Technology Create, analyse, and present data using a variety of software tools Collaborate digitally using cloud-based tools, sharing and editing content effectively  Computer Science Design, implement, and refine complex programs, using algorithms, variables, loops, and conditionals Apply logical reasoning to solve problems and debug programs					
Key knowledge (overarching)	<ul> <li>Understand how more complex algorithms (e.g., loops and conditionals) can solve problems</li> <li>Know that data can be organised and analysed using digital tools (e.g., spreadsheets)</li> <li>Understand the basics of computer networks, including servers and clients</li> <li>Know how computer systems (hardware and software) work together to execute tasks</li> <li>Understand the concept of binary and its role in representing data in computers</li> <li>Recognise the ethical and environmental impacts of computing and technology use</li> </ul>					

Key skills	Can explain the	Can talk about the	Can recognise that	Can enter data into a	Can identify	Can apply their
(Topic specific)	implications of	different types of	you can work in 3D	spreadsheet	variables in everyday	knowledge of
	different	media used on	on a computer		situations	programming to a
	technological	websites		Can explain what an		new environment
	advances on society		Can add 3D shapes	item of data is	Can read sections of	
	at the time.	Can recognise the	to a project		code and predict	Can transfer my
		key features of a		Can choose an	what it will do	program to a
	Can solve code-	website	Can use the tools to	appropriate format		controllable device
	cracking problems		resize and lower/lift	for a cell	Can test my	
	using a cypher	Know that websites	3D objects		predictions by	Can use a variable to
		are written in HTML		Can explain that	running a code	affect the flow of a
	Can explain who			changing inputs,		program
	Alan Turing was and	Know that I need		changes outputs	Can make changes	
	what he achieved	permission to use			to a code to achieve	
		someone else's			specific results	
		things				
Key knowledge	I know that	I know that a	I know that I use the	I know that	I know that a real-	I know that the
(Topic specific)	technology	website contains a	drag and drop on my	information is called	life variable is	micro:bit needs to be
	influences every bit	title, subheadings, a	mouse to add 3D	data. For example,	something that can	connected to my
	of our lives. For	navigation bar to	objects from my	how many km does	change. For	laptop with a USB
	example, phones,	find information,	shape panel to my	each pupil travel to	example, breakfast	cable to receive the
	computers,	pictures/diagrams	workspace.	get to school?	each day, the	code.
	interactive white	and hyperlinks to			clothes we wear, the	
	boards, TVs.	take you to other	I know that if I add	I know that each cell	programs on the tv.	I know that the input
		parts of the website.	another 3D shape, it	holds one piece of		on a micro:bit is the
	I know that a cypher		will stack on top of	data.	I know that 'run'	code I program into it.
	is a code used to	I know that a	the one before.		makes the code run	
	protect important	hyperlink is a short-	1 1	I know that I can	through the	I know that the action
	information.	cut to another part	I know that if I right	format a cell, which	instructions you	the micro:bit
	I know that Alan	of the website.	click on the edge of my shape 3D, I can	means when I add data it will do a	have programmed.	performs is the
	Turing was an	I know that websites	resize it bigger or	mathematical	I know that if the	output.
	influential figure in	are written in HTML,	smaller.	formula. For	sprite doesn't do	
	World War 2 and	which stands for	Silidilei.	example, add the	what we expect, I	
	built the Enigma	Hypertext Markup		column of data	need to investigate	
	machine.			together.	need to investigate	
	machine.	Language.		together.		

					and 'check' the code.	
Key vocabulary	technology computer electronic calculator encryption decipher cipher code-cracking pioneer contribution	browser media logo layout purpose ownership permission fair use copyright HTML (Hypertext Markup Language)	select perspective view handles lift lower recolour rotate duplicate combine	data collecting table structure spreadsheet cell reference format formula cell reference	variable PRIMM prediction test run investigate make and modify forever sequence command	Micro:bit input output process USB trace selection condition random navigation
Week 1	LO: To explore how our lives interlinked with technology?	LO: To review an existing website and consider its structure	LO: To use a computer to create and manipulate three-dimensional (3D) digital objects	LO: To Create a data set in a spreadsheet	LO: To define, explain and use everyday variables	LO: To create a program to run on a controllable device
Week 2	LO: To understand the drive behind the development of computing during the war	LO: To plan the features of a web page	LO: To identify that digital 3D objects can be modified	LO: To build a data set in a spreadsheet	LO: To predict, run, investigate and modify variables within a program	LO: To explain that selection can control the flow of a program
Week 3	LO: To understand how the Enigma Code was Cracked?	LO: To consider the ownership and use of images (copyright)	LO: To recognise that objects can be combined in a 3D model	LO: To explain that formulas can be used to produce calculated data	LO: To plan (design) and make (code) an algorithm including multiple variables	LO: To update a variable with a user input
Week 4	LO: To explore and research the contributions by under-represented groups in the history of computing	LO: To recognise the need to preview pages	LO: To create a 3D model for a given purpose	LO: To apply formulas to data, including duplicating	LO: To plan (design) and make (code) an algorithm including multiple variables	LO: To use a conditional statement to compare a variable to a value

Week 5	LO: To understand	LO: To outline the	LO: To plan my own	LO: To create a	LO: To make, review	LO: To design a
	how computers have	need for a	3D model	spreadsheet to plan	and evaluate my	project that uses
	changed over time	navigation path		an event	game which includes	inputs and outputs on
					multiple variables	a controllable device
Week 6	N/A	LO: To recognise the	LO: To create my	LO: To choose	N/A	LO: To develop a
		implications of	own digital 3D	suitable ways to		program to use inputs
		linking to content	model	present data		and outputs on a
		owned by other				controllable device
		people				