



Subject: Computing

At Woodside Primary Academy we recognise that pupils are living in a rapidly changing world, in which computing is playing an ever-increasing role. We aim, therefore, to equip children with the skills to adapt to new technology and to give them confidence to use computing to further their learning and assist them in everyday life. In doing so, all pupils will have access to computing equipment and resources, according to their ability and age range. At Woodside Primary Academy we believe that increased computing skills promote independent learning and gives greater access to a wide range of ideas and experiences. It enhances the quality of children's work across the curriculum and should enhance and enrich the learning process.

Autumn	EYFS	Key Stage 1			Key Stage	e 2	
	Nursery 2-3	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Nursery 3-4	Autumn	Autumn	Autumn	Autumn	Autumn	Autumn
	Year R						
	Taught across the						
	term						
Kasudadaa		10.0					L Safa
Knowledge	Nursery 2-3	<u>l Safe</u>	<u>I Safe</u>	<u>I Safe</u>	<u>I Safe</u>	<u>I Safe</u>	<u>I Sale</u>
	Keen that some	the south stars as	t has soon the stars soon and		Loop to the base of stiffer south	1	
	Know that some	I know that some	I know that personal	I can talk about some ways I	I can talk about different	I can use some safety	I can Identify a
	toys move when	(Nerror and address)	Information should	can keep myself safe when	ways I can keep myself	measures when using	range of ways they
	they are	(Name and address)	only be given to	using ici.	sare when using ici.	technology and	themselves safe
	pushed/pulled	I Can tell you why I do	trusted people.		I know that not all	working online.	using technology
	Numerow 2.4	or do not trust someone	Lass tall, shout the		information provided on	Lean use searches to	and online services
	<u>Nursery 3-4</u>	but sometimes get it	I can talk about the	communicate, tak about	the world wide web is	find information I'm	report any
	independently	wrong.	importance of staving safe online	some of the fisks and try to	the world wide web is	lind mornation i m	concerns.
	how toys move in	Lundorstand that	staying sale online.	keep sale.	correct.	if it's useful and	
	different ways	norconal information		Lunderstand that there are	Lundorstand that L	holiovable	I can communicate
	unerent ways	chould only be given to	i can explain why i	advorts online	chould got pormission	Dellevable.	online.
	i.e., rolling,	trusted people but	should not use email	adverts online.	for sharing some things	I chock if the	
	spiriting.	comptimes trust the	without permission.	I can tall you why we need	onling	information I find	I can use search
	Voor P	wrong people	Lean give late of	nasswords and that they	onnie.	online is right	to find information
	L can listen to and	wrong people.	ovamples of what	should be kent safe	I can tell you about why I	onnine is right.	online and check it
	follow recorded	l can give a few	information is	should be kept sale.	should secure passwords	I know that neonle	for accuracy and
	instructions	examples of	nrivate	I can follow some e-safety	and why I need to keep	can be mean and	reliability.
	(direction explicit	information that is	private.	rules	them private	nasty online	l can use
	language) to	personal (hobbies).	I can talk about some	i dies.		hasty online.	passwords
	manoeuvre a bee		of the ways to use	I can point out an online	L can use ICT to	I can tell you why	I know that people
	bot.	I can usually point out	computers safely	advert.	communicate, talk about	personal information	can be bullied
		what it is about	compaters surery		some of the risks and act	should only be given	onnine.
		someone that makes	Lask permission	I can give examples of right	to avoid them.	to trusted sources.	I can use digital
		me not trust them.	before using emails	and wrong things to do			tools to
			or apps.	using computers and	I can tell you why	I know that some	collaborate
		I know that personal	0. apps.	online.	information found online	information on the	effectively online.
		information should only	I can use computers		needs to be checked.	internet may be	Loop tale attraction
		be given to people I	and devices	I can tell you why		misleading or	of the risks
		trust.	responsibly.	information I find online	I can give examples	inaccurate and I check	associated with

I understand that a wider range of	I can tell you some of	needs to be checked.	about what types of things online I might	the information I find.	work and leisure in a digital society
information is personal.	the ways to report	I can check information I	need permission to use.	I can use technology	them.
I can give examples of a	online that makes	find offinite.	l can use safety	communicate and	I can find
variety of characteristics	me uncomfortable,	I can choose information	measures when using	collaborate and	information online
of trustworthy people	worried or upset.	from a different website	technology and working	identify some of the	and check it for accuracy and
and tell you why I think		carefully.	online.	risks and act to	reliability
the way I do.	I can talk about some			minimise them.	I can talk about the
	of the dangers of	I can explain how to avoid	I can use searches to find		screen locks that
I know that personal	sending and	adverts tricking me.	information I'm looking	I can give examples	protect devices.
information should only	receiving emails.		for and check if it's	about what is good	l can create
be given to trusted			userul and believable.	and bad benaviour	passwords that
people.			I check if the information	Unine.	might be difficult
			I find online is right and	I can talk about the	to guess.
			I can tell you what	different ways people	I can make
			copyright means.	can be bullied online.	information sharing
					on sites and
				I can give lots of	services I use.
				examples about how I	I can identify
				can stay safe using	situations of
				and how to report	harassment or bullying online
				anything I'm worried	bunying online.
				about.	I can identify situations when it's better to
				l can communicate	communicate face
				and work effectively	to face rather than
				and safely online.	to message.
					I know that there
				I can use search	are tools available
				criteria efficiently and	abuse.
				tind information	
				accurate and reliable.	of technologies and
				l know what to do if l	communicate and
					collaborate safely
				cyberbullying	and enectively.
				cyberbanying	I can demonstrate
					technology and
					online tools.
					I know a number of
					risks associated
					with work and
					society and act to
					minimise them.
					I know how to

						create passwords that are hard to guess, yet easy to remember. I can talk about specific ways to respond to bullying when I see it. I can choose how to respond to negativity online. I can talk about when and why it would be appropriate to use online reporting
SkillsNursery 2-3To use cause and effect toys to help develop language skills and develop gross motor skills.Nursery 3-4 To begin to investigate a range of toys independently that have mechanisms for moveYear R To begin to understand how to follow instructions.	LSafe Know that some information is personal. I can Identify some characteristics of trustworthy/untrustw orthy people but give inappropriate justification. Understand that personal information should only be given to trusted people, but the trust can be misplaced. Understand that various information is personal. know that personal information should only be given to trusted people	LSafe Identify some ways they can keep themselves safe when using ICT. Use ICT to communicate, identify some of the risks and act to minimise them. Understand that a wider range of information is personal.	LSafe Cross check information found on one website against another source. Carefully select information from a range of websites. Recognise what is acceptable/unacceptable behaviour when using technology and online.	LSafe Cross-check information provided on one website against that provided on another. Demonstrate the use of basic safety measures when using technology and working online. Know the need to use secure passwords and keep them private. Use ICT to communicate and collaborate, identify some of the risks and act to minimise them	LSafe Cross-check information provided on one website against that provided on another. Create digital content for specific purposes. Demonstrate the use of basic safety measures when using technology and working online. Check information provided on the world wide web for accuracy. Know that personal information should only be given to trusted sources	Identify a range of ways they can keep themselves safe using technology and online services and know how to report any concerns. Communicate effectively and safely online. Use search criteria efficiently to find information online and check it for accuracy and reliability.

Vocabulary	<u>Nursery 2-3</u> Push Pull My turn Your turn <u>Nursery 3-4</u> Rolling Spinning Moving <u>Year R</u> Internet Online Website Safe	Personal Information Trusted adult Permission Cyber Bullying	Personal Information Trustworthy Untrustworthy Trusted Adult Internet Online	Privacy Settings Online Sharing Content Strong Password Manipulation	Privacy settings Keywords Copyright Strong Password Spam Virus Cyber Bullying	Personal Information Reliable Cyber Bullying SMART	Personal Information Reliable Cyber Bullying Strong Password Privacy settings
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Spring	EYFS	Кеу	Stage 1		Key St	age 2	
	Nursery 2-3	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Nursery 3-4	Spring	Spring	Spring	Spring	Spring	Spring
	Year R						
	laught across the						
	term						
Knowledge	Nursery 2-3	<u>l Write</u>	I Search	<u>l Connect</u>	<u>l Mail</u>	<u>I Draw</u>	<u>I Draw</u>
	I know that some	Look at how you can	Children to navigate	Children navigate a	Simulate sending messages	Children use software to	Children use software to
	toys move or turn	write different prints.	around a website to find	website using	over distances using different	create an image using	create an image using
	on if certain buttons		out about a planet	hyperlinks	methods	different tools.	different tools. Look at
	are pressed.	Create a simple			(flags, Morse code &		resizing and rotating
		sentence using	Ask/ answer a question	Children navigate a	bonfires)	Look at resizing and	Children to recognise the
	Nursery 3-4	software.	relating to planets	website using links,		rotating	components of a vector
	I know that objects			buttons and scroll bars	Children read an email		image
	(bee bots) can move	Open a document to	Children collect		Children compose and send	Children to recognise the	Children to use tools to
	if I press the	construct a simple	information from a section	Children enter URLs	emails and respond (style of	components of a vector	create a vector image
	directional buttons.	story using a word	of a website	into the web browser.	email-formal/informal)	image	Children can explain
		processor.		Visit and explore		_	which tools create which
	Year R		Children present their	different websites	Children to understand how	Children to use tools to	affect and make changes
	I know how to	Children suggest	findings in a book		messages bounce back	create a vector image	for effect
	interact with a	situations and	-	Children simulate a	-	_	Children to add and
	variety of different	advantages for using a	I Do Mail	search engine and find	Children to attach a photo to	Children can explain	create layers
	computing	word processor	Understand that messages	things out online	their email	which tools create which	Children to design a
	equipment such as		can be sent electronically	(link to e safety)		affect and make changes	vector drawing using
	microphones for	<u>l Draw</u>	over distances		Children to use email to	for effect	digital tools according to
	singing that are	To make shapes and fill		Children evaluate a	collaborate ideas discussing a		a design
	available in the	them in.	Understand that people	website according to	project	Children to add and	Children evaluate their
	classroom.		can reply to them	different criteria		create layers	work
		Create a self portrait			I Program		
		Use appropriate shapes	Understand that	Children to learn and	Children can draw simple	Children to design a	I Program Unit 1
		and colours to recreate	communication can be	talk about copyright	shapes using programming	vector drawing using	To understand that
		the work of an artist	images, sound and texts	Children to produce	blocks containing directional	digital tools according to	computer programs
			-	their own cyber hunt	language and repetition	a design	containing graphics use x
		Create an eBook based	l Program	involving websites			y coordinates and turns
		on a nursery rhyme	Children can sequence a	-	The children can create and	Children evaluate their	are measured in degrees.
			set of instructions for	I Network	test a sequence of	work	-
		<u>l Model</u>	making a sandwich	Children explain that a	statements that make letters		To create a game that
		Children use a mouse to	J J	network are things	of the alphabets	I Program Unit 1	senses events on screen.
		dress a virtual child	Children create a sequence	that are connected		To understand that	
		Children investigate	of instructions for a dance		The children create	computer programs	To program statements
		alternative ways to	routine adding repeat	Children can identify	programmes that alter the	containing graphics use	that make something
		programme.	instructions	key parts of a network	size of the shape	x y coordinates and	happen in response to
						turns are measured in	events on screen.
		Children can use a	Children to draw their own	Children can talk	The children programme a	degrees.	
		simple adventure game	monster sprite using	about how	robot to draw letters of the		To be able to understand
		and make choices on	scratch software	information can be	alphabet	To create a game that	what a variable is and

		screen.		passed between		senses events on	why they are useful.
			Children create an	devices	The children programme a	screen.	
		Children to recognise	animation where their		robot to pick up a beacon		To understand that
		what is real/not real in	sprite moves on the stage	Children describe how	using an if statement or else	To program statements	variables can be used in
		the game		networks connect to	move in another direction	that make something	programming to keep
		Children build on	Children programme 2	the internet using	The children program a	happen in response to	track of values.
		drawing skills to create a	sprites to talk to each	routers	virtual robot to follow	events on screen	
		storvboard	other using say blocks	Children talk about	makers on a map and		To program statements
		,,		how networks connect	retrieve an object	To be able to	that make something
		l Data	Children make a simple	to each other and		understand what a	happen in response to
		Children use a table to	animation which has a	model data transfer		variable is and why	the value of a variable.
		create a nictogram	simple background with			they are useful	
			sprites moving and talking	Children identify the IP		they are user an	To identify an
		Children use them to	sprites moving and taking	address of their		To understand that	annronriately sconed
		answer questions		favourite website		variables can be used in	nroject
		answer questions		I Data		programming to keep	project
		Children use digital tools		Children understand		track of values	To develop an outline of
		to croate a graph		the words record field		track of values	to develop an outline of
		to create a graph		and data when talking		To program statements	required to develop a
				and uata when taking		that make comothing	required to develop a
				about uatabases		hannan in rasnansa ta	project.
				Children een sooreh		the value of a variable	
				children can search		the value of a variable.	To use computational
				and sort records in an		To identify an	To use computational
				electronic database		To identify an	concepts of sequence,
				Children will enter		appropriately scoped	selection, repetition and
				Children will enter		project	variables to program a
				multiple records to an			computer game.
				existing database		To develop an outline	
						of tasks and activities	
						required to develop a	
						project.	
						To use computational	
						concepts of sequence,	
						selection, repetition	
						and variables to	
						program a computer	
						game.	
Skills	Nursery 2-3	I Write and I Draw	I Search and I Do Mail	<u>I Connect</u>	<u>l Mail</u>	<u>l Draw</u>	<u>l Draw</u>
		Lise digital drawing tools	Navigate a document using	Know that neonle can	Lise more advance features	Create digital content	Create digital content
	To operate on/off	to express something	arrow keys and a mouse	communicate and	of applications to help them	that incorporates text	that incorporates text
	toys		Use the backspace button	collaborate online	match their work to their	and image	and image
		Use IT to create	and delete button to		audience	Ū	U U
	Nursery 3-4	sentences that	remove text	Use a search		Understand that digital	Understand that digital
	To be able to input	communicate meaning		technology to find	Send an email	content needs to be	content needs to be
	basic code in order	Find answers to simple	nresentations that	things out	Reply to an email	of the intended	of the intended
	for an object to	questions using a	communicate meaning	Use a range of tools to	hepty to an email	audience, the content	audience, the content
	move.	website		communicate and	Use the search facility in a	and the layout of	and the layout of
			Navigate around a website	express ideas	database to find the answer	information	information
	<u>Year R</u>	Use drawing and text	using hyperlinks and the		to questions	Discuss the rationale	Discuss the rationale

	Children will develop their fine motor skills to be able to use a range of tools for computing safely, competently and confidently.	information Use a combination of text and drawing to make simple presentations	Type web address into a web browser Create internet favourites			be cre conte	hind their digital eations including ent, media used and layout.	behind their digital creations including content, media used and layout.
Vocabulary	<u>Nursery 2-3</u> on/off Switch	Digital Art Canvas Brush Fill	Address Attachment	World wide web Network Internet	Email Email address To		Vector Canvas Resize	Vector Canvas Resize
		Line	World wide web	Hyperlink	From		Rotate	Rotate
	Nursery 3-4	Shape tool	Network	Search	forward		Fill	Fill
	Bee bot	Undo	Internet	URL	Attachment		Stamp	Stamp
	Button	Edit	Hyperlink	IP address Web browser	i urtie; forward; back; left;		Group	Group
	backward	Open	URL	Copyright	repeat: angle: degrees:		Zoom	Zoom
		Print	Algorithm	database,	repeat		Send to front	Send to front
	<u>Year R</u>	Text	Sequence	record,	Turtle; sequence; angle;		Send to back	Send to back
	Record	Processor	Program	question,	forward; back;		Bring	Bring
	Pause	Word Keyboard	Repeat Test	field, data	left; right; degrees Robot: forward: backward:		Forward	Forward
	riay	Backspace	Debug	database.	right: left:		Backward	Backward
		Кеу		record,	paint; remote control		Sequence	Sequence
		Return		enter,	condition; if; then; else; true;		Selection	Selection
		enter		Network; connected;	false;		conditions	conditions
		Data		network switch;	execute; statement; left;		Repeat	Condition
		Pictogram		wireless access	back; repeat		Boolean	Boolean
		Model		point (WAP)	Condition; repeat; if; else;		Variable	Variable
		Algorithm		WIFI;	left; right;		Coordinates	Coordinates
		Instruction		router;	forward; back		x-y axis	x-y axis
		Choice		LAN (local area				
				network)				

Summer	EYFS	Кеу	Stage 1		KeyS	Stage 2	
			<i>v</i> e			· · -	
	Nursery 2-3	Year1	Year 2	Year 3	Year 4	Year 5	Year 6
	Nursery 3-4	Summer	Summer	Summer	Summer	Summer	Summer
	Year R						
	Taught across the						
	term						
Knowledge	Nursery 2-3	I Algorithm	<u>l Animate</u>	I Program Unit 1	I Program Unit 3	<u>l Model</u>	<u>l Model</u>
	To know what	The children can give	The children create a	To understand that a	Plan small groups of	The children use the	The children use the basic
	buttons can cause a	examples of everyday	flipping book animation	program is a	commands and test each	basic building tools of	building tools of graphical
	camera to take a	algorithms		sequence of	programs	graphical modelling	modelling software to
	picture in the		The children create	statements written in	pro8	software to build a	build a simple 3D model.
	classroom.	The children can	character descriptions	a programming	The children create a	simple 3D model.	
		follow a set of	for a fairy tale	language (Scratch)	procedure that is used		The children can make
	Nursery 3-4	instructions			by more than one sprite	The children can make	changes to graphical
	To be able to use		The children create a	To program an	The children use two	changes to graphical	models
	programmable toys	The children produce	storyboard for a short	animation that	different programming	models	
	to move forwards or	a set of instructions	stop-frame animated	executes a sequence	constructs to		The children develop their
	backwards and left	The children give	sequence	of statements	synchronise action	The children develop	projects according to a
	and right	instructions to a			(timing and broadcasts)	their projects according	design
		human robot to	The children create a	To understand that	The children create a	to a design	
	<u>Year R</u>	complete.	script to retell a short,	computer programs	project with changing		They combine shapes by
	I can use simple		animated scene of a	containing graphics	backdrops	They combine shapes by	grouping, connecting,
	software	The children	fairytale	use x y coordinates		grouping, connecting,	repositioning and resizing
	applications to make	write/draw an		and turns are	The children investigate	repositioning and	to create a 3D model
	something happen	algorithm for robot to	The children create the	measured in degrees	of computer programs	resizing to create a 3D	
	on an IPAD	follow	backgrounds and		or comparer programs	model	The children can identify
			characters for their	To program a	The children develop a		improvements that could
		The children plan a	animation	sequence of	collaborative storytelling	The children can identify	be made to a model
		sequence of		instructions that	project.	improvements that could	The children amend their
		instructions to direct	The children use a	create visual effects	l Data	be made to a model	models to improve them.
		a partner to an object	storyboard and script to		The children create a		
			support the creation of a	To import, create and	hippry string that	The children amend their	<u>l Web</u>
		The children can	stop frame animation	record soundsTo	represents their own	models to improve them.	To understand the World
		change the		understand that	initials		Wide Web is one of the
		instructions if they	I Program Unit 2	algorithms and	initidis.	<u>l Web</u>	services offered on the
		are incorrect	The children program a	programs can involve	The children cort	To understand the World	internet.
			character to move	repetition	database records and	Wide Web is one of the	
		The children make			use the information on	services offered on the	To know that the world
		predictions about	The children program an	To predict the	them to answor	internet.	wide web consists of many
		what a leo model will	animal sprite to animate	outcomes of a simple	questions		websites and webpages
		look like based on a	animal-like movement	algorithm	questions	To know that the world	that can be accessed using
		simple algorithm.	and actions		The children add records	wide web consists of	the internet.
				To use a repeat	to a database	many websites and	
		They test their	The children create an	function to draw a 2D	to a uatabase	webpages that can be	To understand that many
		predictions by	animation exploring the	shape	The children use terms	accessed using the	people remix content to
		following an	solar system		to search a database and	internet.	work on the world wide
1		-	·		ito search a uatabase dilu		

	algorithm		To import pictures	answer questions		web.
		The children program a	from a computer		To understand that many	,
	The children know	plant to grow or shrink	and/or the internet	The children create	people remix content to	To know that websites are
	whether a simple	according to a condition	To combine images,	simple charts using a	work on the world wide	written in HTML.
	condition is true or	The children use the	sounds and	database	web.	To know that a HTML gives
	not.	trigger blocks and go to	movement to create	They use the information		a web page structure
	The children can	the page block to convey	a personal animation.	on the chart to answer	To know that websites	To change a picture on a
	follow instructions to	two possible outcomes		questions	are written in HTML.	web page.
	do something in	to a story.	I Simulate			
	response to a		The children	<u>l Animate</u>	To know that a HTML	To read basic HTML code.
	condition being true	The children play, design	understand that	The children create a	gives a web page	To understand how HTML
	or false	and program an	computer	flipping book animation	structure	provides structure for web
		animated story	simulations allow	The children draw a		content
	I Program Unit 1		users to try things	series of images on	To change a picture on a	
	The children can		that would be	frames	web page.	To use research for the
	identify everyday		difficult or impossible			creation of a website.
	devices that perform		to do in real life	Each frame shows a	To read basic HTML	
	an action in response			figure on a different	code.	To upload an image for
	to an instruction.		The children use a	pose		insertion into a website.
			simulation to identify		To understand how	
	The children can		patterns and rules	The children animate a	HTML provides structure	
	guide a			sequence of digital	for web content	
	programmable to		The children use and	images		
	where they want it to		explore an adventure	-	To use research for the	
	go.		game based on an	The children design and	creation of a website.	
	-		imaginary world	add backgrounds to their		
	The children can plan,			animated scenes	To upload an image for	
	test and amend a		The children use an		insertion into a website.	
	sequence of		electrical circuit	The children plan and		
	instructions that		Simulation to try out	make an animation	I Crypto	
	moves a		combinations of		The children encode a	
	programmable toy.		circuits		message using a variety	
	The children make				of methods	
	predictions about		The children make a			
	where an object will		computer simulation		The children decode	
	be after executing an				semaphore message	
	algorithm.					
					The children encode and	
	The children produce				decode message using	
	a clear set of				morse code	
	instructions for					
	others to follow.				The children	
					encode/decode	
	The children can				messages using Caesar	
	follow a set of				Shift	
	instructions provided					
	by others.				The children use	
					frequency analysis to try	
	The children combine				to crack code	
	physical Scratch jr					

		blocks to direct each				The children use an	
		other to move to				enigma simulator to	
		obstaclos in the story				crack code	
		obstacles in the story.				Clack code	
		The children import					
		and/or edit/draw a					
		background for the					
		background for the					
		bear hunt story.					
		The children program					
		a sprite to move to					
		objects on screen in a					
		specific sequence.					
		The children program					
		comothing to honnon					
		something to happen					
		when the main sprite					
		bumps the obstacles					
		in the bear hunt					
		story					
		story.					
		The children program					
		a bear sprite to chase					
		the main character					
		corito					
		sprite.					
		The sprites move at					
		different speeds					
		The children plan and					
		media an animated					
		make an animated					
		story.					
Skills	<u>Nursery 2-3</u>	<u>I Algorithm</u>	<u>l Animate</u>	<u>I Program Unit 1</u>	<u>I Program Unit 3</u>	<u>l Model</u>	<u>l Model</u>
	To use equipment	Read a set of	Combine graphics with	Design and develop basic	Write an algorithm to	To understand the	To understand the
	for a desired	instructions and	text	computer programs	produce a given effect	difference between 2D	difference between 2D
		sometimes predict	Use appropriate effects		using repetition		difference between 2D
	outcome.	the correct outcomes	and resize graphics	Combine sequences of	U ,	and 3D snapes	and 3D snapes
			0 1	commands into	Accurately predict the		
	Nursery 3-4	Produce instructions	Use software, computers	procedures that are	outcome of a range of	To become familiar with	To become familiar with
		but sequence them	and devices to make	' repeated	algorithms and programs	basic 3D modelling tools	hasic 3D modelling tools
	Liston to and follow	incorrectly or make	simple presentations and	•	Test, debug and refine		
	Listen to and follow	assumptions	create things	Test and correct simple	algorithms and programs		
	recorded		6	programs		To understand that	To understand that
	instructions	Understand that	Know how to undo and	1. 50 5	Use sequence and basic	graphical models can be	graphical models can be
		humans and	redo	Evaluate their own work	selection and repetition	easily changed	easily changed
	Year R	computers follow		and comment on	in computer programs	, 0	, 0
	<u>rear n</u>	instructions		improvements		To use fortunes of	To use feetures of
					Explain how a	to use reatures of	To use reatures of
	Use simple software	Produce a set of		Combine graphics with	programmed effect has	graphical modelling	graphical modelling
	applications to make	instructions		text	been achieved	software to develop a 3D	software to develop a 3D
	something happen					model	model
	Bring hoppen	Understand that		Use appropriate effects	Talk about		
		shad stand that		app. opriate cricets			

c	 	 			
	computers follow	and resize graphics	improvements that could		
	instructions given in a		be made to progress	To evaluate and improve	To evaluate and improve
	precise way	Use software, computers		3D models	3D models
	Produce an accurate	simple presentations and	<u>I Data</u>		
	set of instructions	create things	Use the more advanced	l Web	l Web
	using agreed		features of applications	To understand what the	To understand what the
	language that others	Know how to undo		world wide web is one of	world wide web is one of
	can follow	and redo	Send an email	the services offered on	the services offered on the
	Understand that			the internet	internet
	computers have no		Reply to an email		internet
	intelligence			To know that the world	To know that the world
	0.0		<u>l Animate</u>	wide web consists of	wide web consists of many
			To understand what I	many websites and web	websites and web pages
			animation is	many websites and web	that ca be accessed using
				pages that cabe	that the internet
			To create a scene for an	internet	the internet
			animation	internet	To know that woheitos are
				To know that wohsites	written in UTML and
			To understand that	TO KNOW INAL WEDSILES	whiten in HTML code
			animations can be		To wood bosic LITML code
			created using digital	code	To read basic HTML code
			tools	To see allow to UTMAL and a	
				To read basic HTIVIL code	To understand now HTML
			To create an animated		provides structure for web
			scene	To understand how	content
				HTML provides structure	
			To storyboard and create	for web content	<u>l Crypto</u>
			a short animation		To understand that
				<u>l Crypto</u>	messages can be sent and
				To understand that	received secretly
				messages can be sent	
				and received secretly	To learn encrypt/decrypt
					simple messages
				To learn encrypt/decrypt	
				simple messages	To understand that
					messages can be sent
				To understand that	electronically over
				messages can be sent	distances
				electronically over	
				distances	To understand that data
					can be transmitted as
				To understand that data	binary
				can be transmitted as	
				binary	Understand algorithm of a
					simple cipher
				Understand algorithm of	
				a simple cipher	To use frequency analysis
					to decipher encrypted text
				To use frequency	
				analysis to decipher	To understand the
				encrypted text	importance of

				[cryptography historically
						To understand the	and today
						importance of	
						cryptography historically	I Program Unit 2
						and today	To understand that
							computer programs
						I Program Unit 2	containing graphics use X Y
						To understand that	coordinates and turns are
						computer programs	measured in degrees
						containing graphics use X	
						Y coordinates and turns	To use condition
						are measured in degrees	statements
						To use condition	To understand that some
						statements	variables can be true or
							false
						To understand that some	
						variables can be true or	To understand that
						false	programs can do different
						_	things if the value of a
						To understand that	Boolean variable is true or
						programs can do	false
						different things if the	
						value of a Boolean	lo use variables in
						variable is true or false	programs
						Ta waa waxiahlaa in	
						To use variables in	
Maaabudawu	Numeror 2.2			Program	forward: left: right:	programs	
vocabulary	<u>INUrsery 2-3</u>	sequence;	Animation	Sequence	sequence;	20	2D 2D
	Photo	hack: turn: un: down	Script	Selection	command; jump;	Model	Model
	Button	un: down: loft: right:	Motion	Repeat Co. ordinatos	execute;	Recize	Recize
	Button	debug:	Storyboard	x-v axis	repeat: call:	Rotate	Rotate
	Nursery 3-4	nredict:	Props	import	decomposition	Zoom in	Zoom in
	Instruction	debug:	Algorithm	test	forward; left; right;	Zoom out	Zoom out
	Listen	nattern:	Instruction	debug	sequence;	Group	Group
	Left	repeat	Sequence	rules	execute; function;	World wide web	World wide web
	Right	algorithm	Program	choices	abstraction; repeat; call	HTML	HTML
		program	Repeat	variables	animation	CSS (Cascading style	CSS (Cascading style
	Year R	debug	Test		frame rate	sheets)	sheets)
	iPad	output	debug		frames per second	Element	Element
	Open	sprite;	ů.		CGI	Tags	Tags
	Close	interact;			Database	Cryptography	Cryptography
	Zoom	execute;			Record	Encrypt	Encrypt
		test;			File	Decrypt	Decrypt
		save			Field	Cipher	Cipher
		interact;			Sort	Кеу	Кеу
		bump;			chart	Shift	Shift
		test;				Binary	Binary
		run;				Frequency analysis	Frequency analysis
		execute				Object	Object

[bump;	Τ	program	program
	fast; slow; speed; up;		conditions (when. Do);	conditions (when. Do);
	down; left; right;		iteration	iteration
	design;		repetition	repetition
	plan;		loops	loops
	animate;		input	input
	edit;		variable (score)	variable (score)
	setting;		statement	statement
	beginning;		sequence	sequence
	middle;		objective	objective
	end;		platform	platform
	scene;		test	test
	page;		debug	debug
	motion;		condition	condition
	speed;		input	input
			equal to	statement
			Statement	Statement

Impact (End Points)							
EYFS Key Stage 1			Key Stage 2				
Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Children are able to follow instructions with several ideas or actions. Children should work towards simple goals. Children should be able to play cooperatively taking turns. Children should be able to safely use and explore a variety of materials, tools and techniques.	Children should be able to confidently log in and use a range of technology/programs e.g., Beebots, computer, camera. They use different technology/programs appropriately to type, locate, identify and create.	Children create simple pictures increasing mouse skills. They know how to stay safe when working online. Children can understand how code moves a sprite and how to write an algorithm for movement.	Children demonstrate a safe use of the Internet, awareness of privacy. Develop competence use of Excel spreadsheets, word documents and editing. Accomplished at collecting, analysing, evaluating, presenting data and information. Understanding of Binary.	Children should be confident in using the internet safely (search engines) and who to report concerns too. Understand the meaning of algorithms and how they work, detecting and correcting simple errors.	Children will know how to use a variety of different programs to achieve a desired outcome. They will be able to identify and debug algorithms in order to create a game using Kodu. Children will be able to use spreadsheets to collect and calculate data and present it in a variety of ways. They know how to stay safe online and how to behave responsibly online.	Children are able to use logical reasoning to explain how simple algorithms work in different programs and be able to apply their knowledge and Understanding. Children should be able to use search technologies effectively and independently. Children should be able to understand computer networks, including the internet and be able to use them safely, respectfully and responsibly.	