

Tushingham with Grindley CofE Primary School

Progression of Skills in Computing-Programme of Study

For E-Safety we use ProjectEVOLVE. A bespoke esafety tool that assesses pupils current knowledge and then provides a scheme of work with resources to help increase their awareness. Topics for this are listed in the progression for skills grid and in the attached documents below. The order they will be taught in will be decided each year as a result of the eAWARE assessment each child completes in class. Teachers will prioritise as required by the needs of the class identified from these assessments.

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computing Systems	1.1 Technology around us	2.1 Technology around us	3.1 Connecting Computers	4.1 The Internet	5.1 Systems and searching	6.1 Communication and collaboration
Hardware	Laptop, Chromebook	Laptop, Chromebook	Laptop	Laptop, Chromebook, tablet	Laptop, Chromebook	Laptop, Chromebook
Software	paintz.app	Google Slides or Microsoft Powerpoint	Painting program (any)	Various websites	Google Slides	Google Slides
Vocabulary	technology, computer, mouse, trackpad, keyboard, screen, double- click, typing.	Information technology (IT), computer, barcode, scanner/scan	digital device, input, process, output, program, digital, non-digital, connection, network, switch, server, wireless access point, cables, sockets	internet, network, router, security, switch, server, wireless access point (WAP), website, web page, web address, routing, web browser, World Wide Web, content, links, files, use, download, sharing, ownership, permission, information, accurate, honest, content, adverts	system, connection, digital, input, process, storage, output, search, search engine, refine, index, bot, ordering, links, algorithm, search engine optimisation (SEO), web crawler, content creator, selection, ranking.	communication, protocol, data, address, Internet Protocol (IP), Domain Name Server (DNS), packet, header, data payload, chat, explore, slide deck, reuse, remix, collaboration, internet, public, private, oneway, two-way, one-to-one, one-to-many.

Concept	To identify technology To identify a computer and its main parts To use a mouse in different ways To use a keyboard to type To use the keyboard to edit text To create rules for using technology responsibly	To recognise the uses and features of information technology To identify information technology in the home To identify information technology beyond school To explain how information technology benefits us To show how to use information technology safely To recognise that choices are made when using	To explain how digital devices function To identify input and output devices To recognise how digital devices can change the way we work To explain how a computer network can be used to share information To explore how digital devices can be connected To recognise the physical components of a network	To describe how networks physically connect to other networks To recognise how networked devices make up the internet To outline how websites can be shared via the World Wide Web (WWW) To describe how content can be added and accessed on the World Wide Web (WWW) To recognise how the content of the WWW is created by people To evaluate the consequences of	To explain that computers can be connected together to form systems To recognise the role of computer systems in our lives To recognise how information is transferred over the internet To explain how sharing information online lets people in different places work together To contribute to a shared project online To evaluate different ways of working together online	To identify how to use a search engine To describe how search engines select results To explain how search results are ranked To recognise why the order of results is important, and to whom To recognise how we communicate using technology To evaluate different methods of online communication
01:11		information technology		unreliable content		
Skill	can explain how these technology examples help us	"- I can describe some uses of computers - I can identify examples of	I can explain that digital devices accept inputs I can explain that digital devices	- I can demonstrate how information is shared across the internet - I can describe the	- I can describe that a computer system features inputs, processes, and outputs	- I can compare results from different search engines
	- I can explain technology as something that helps us	computers - I can identify that a computer	produce outputs - I can follow a process	internet as a network of networks	- I can explain that computer systems communicate with other devices	web search to find specific information - I can refine my
	- I can locate examples of technology in the classroom	is a part of information technology	- I can classify input and output devices	- I can discuss why a network needs protecting	- I can explain that systems are built using a number of parts	search - I can explain why we need tools to find things online

	T		r -		
	"- I can explain	- I can describe a	- I can describe		
"- I can name	the purpose of	simple process	networked devices	- I can explain the	- I can recognise
the main parts	information		and how they	benefits of a given	the role of web
of a computer	technology in	- I can design a	connect	computer system	crawlers in
	the home	digital device			creating an index
- I can switch on		_	- I can explain that	- I can identify tasks	
and log into a	- I can move	- I can explain how I	the internet is used	that are managed	- I can relate a
computer	and resize	use digital devices	to provide many	by computer	search term to the
·	images	for different	services	systems	search engine's
- I can use a		activities			index
mouse to click	- I can open a		- I can recognise	- I can identify the	
and drag	file"	- I can recognise	that the World Wide	human elements of	- I can explain that
	"- I can compare	similarities between	Web contains	a computer system	a search engine
"- I can click and	types of	using digital devices	websites and web		follows rules to
drag to make	information	and non-digital tools	pages	- I can explain that	rank relevant
objects on a	technology	and non alguar to le	P 2.300	data is transferred	pages
screen	toormology	- I can suggest	- I can describe	over networks in	pagee
0010011	- I can find	differences between	how to access	packets	- I can explain that
- I can use a	examples of	using digital devices	websites on the	paokoto	search results are
mouse to create	information	and non-digital tools	WWW	- I can explain that	ordered
a picture	technology	and non digital tools	******	networked digital	ordered
- I can use a	technology	- I can discuss why	- I can describe	devices have	- I can suggest
mouse to open	- I can talk	we need a network	where websites are	unique addresses	some of the criteria
a program"	about uses of	switch	stored when	unique addresses	that a search
"- I can save my	information	SWITCH	uploaded to the	- I can recognise	engine checks to
work to a file	technology	- I can explain how	WWW	that data is	decide on the
- I can tell you	technology	messages are	VV VV VV	transferred using	order of results
that writing on a	"- I can	passed through	- I can explain the	agreed methods	order or results
	demonstrate	multiple connections	types of media that	agreed methods	- I can describe
computer is		multiple connections	can be shared on	Loop ovaloin that	
called typing	how information	Loop roceanice		- I can explain that the internet allows	some of the ways that search results
Loop tupo mu	technology is	 I can recognise different 	the WWW		
- I can type my	used in a shop		Laga avalain that	different media to	can be influenced
name on a	l ann anniain	connections	- I can explain that	be shared	Lana avalain bavv
computer	- I can explain		internet services	Laan waaaniaa	- I can explain how
" Loop dalata	how information	- I can demonstrate	can be used to	- I can recognise	search engines
"- I can delete	technology	how information can	create content	that connected	make money
letters	helps people	be passed between	online	digital devices can	1
		devices		allow us to access	- I can recognise
- I can open my	- I can		- I can explain what	shared files stored	some of the
work from a file	recognise that	- I can explain the	media can be found	online	limitations of
	information	role of a switch,	on websites		search engines
- I can use the	technology can	server, and wireless		- I can send	L L.
arrow keys to	be connected	access point in a	- I can recognise	information over the	- I can choose
move the cursor		network	that I can add	internet in different	methods of
	"- I can list		content to the	ways	communication to
	different uses of	- I can recognise	WWW		suit particular
		that a computer			purposes

	"- I can discuss how we benefit from these rules - I can give examples of some of these rules - I can identify rules to keep us safe and healthy when we are using technology in and beyond the home"	information technology - I can recognise how to use information technology responsibly - I can say how those rules/guides can help me "- I can enjoy a variety of activities - I can explain simple guidance for using information technology in different environments and settings - I can identify the choices that I make when using information technology."	network is made up of a number of devices	- I can explain that there are rules to protect content - I can explain that websites and their content are created by people - I can suggest who owns the content on websites - I can explain that not everything on the World Wide Web is true - I can explain why I need to think carefully before I share or reshare content - I can explain why some information I find online may not be honest, accurate, or legal	- I can compare working online with working offline - I can make thoughtful suggestions on my group's work - I can suggest strategies to ensure successful group work - I can explain how the internet enables effective collaboration - I can identify different ways of working together online - I can recognise that working together on the internet can be public or private	- I can explain the different ways in which people communicate - I can identify that there are a variety of ways of communicating over the internet - I can compare different methods of communicating on the internet - I can decide when I should and should not share - I can explain that communication on the internet may not be private
Creating media	1.1 Digital painting	technology" 2.1 Digital	3.1 Stop frame	4.2 Audio-production	5.2	6.2 Webpage
media		photography	Stop-frame animation		Video production	creation
Hardware	Laptop, Chromebook	Laptop, digital camera	Tablet	Laptop	Laptop	Laptop, Chromebook
Software	Microsoft Paint or similar		iMotion (app for iOS)	Audacity	Microsoft Photos (for Microsoft Windows 10)	Google Slides
Vocabulary	paint program, tool, paintbrush, erase, fill, undo, shape tools, line tool, fill tool,	device, camera, photograph, capture, image, digital, landscape,	animation, flip book, stopframe, frame, sequence, image, photograph, setting, character, events,	audio, microphone, speaker, headphones, input device, output device, sound,	video, audio, camera, talking head, panning, close up, video camera,	website, web page, browser, media, Hypertext Markup Language (HTML), logo,

undo tool, colour, brush style, brush size, pictures, painting, computers	portrait, framing, subject, compose, light sources, flash, focus, background, editing, filter, format, framing, lighting,	onion skinning, consistency, evaluation, delete, media, import, transition.	podcast, edit, trim, align, layer, import, record, playback, selection, load, save, export, MP3, evaluate, feedback.	microphone, lens, mid-range, long shot, moving subject, side by side, angle (high, low, normal), static, zoom, pan, tilt, storyboard, filming, review, import, split, trim, clip, edit, reshoot, delete, reorder, export, evaluate, share.	layout, header, media, purpose, copyright, fair use, home page, preview, evaluate, device, Google Sites, breadcrumb trail, navigation, hyperlink, subpage, evaluate, implication, external link, embed
To describe what different freehand tools do To use the shape tool and the line tools To make careful choices when painting a digital picture To explain why I chose the tools I used To use a computer on my own to paint a picture To compare painting a picture on a computer and on paper	To know what devices can be used to take photographs To use a digital device to take a photograph To describe what makes a good Photograph To decide how photographs can be improved To use tools to change an image To recognise that images can be changed	To explain that animation is a sequence of drawings or photographs To relate animated movement with a sequence of images To plan an animation To identify the need to work consistently and carefully To review and improve an animation To evaluate the impact of adding other media to an animation	To identify that sound can be digitally recorded To use a digital device to record sound To explain that a digital recording is stored as a file To explain that audio can be changed through editing To show that different types of audio can be combined and played together To evaluate editing choices made	To explain what makes a video effective To identify digital devices that can record video To capture video using a range of techniques To create a storyboard To identify that video can be improved through reshooting and editing To consider the impact of the choices made when making and sharing a video	To review an existing website and consider its structure To plan the features of a web page To consider the ownership and use of images (copyright) To recognise the need to preview pages To outline the need for a navigation path To recognise the implications of linking to content owned by other people
"- I can draw lines on a screen and	"- I can capture digital photos and talk about my experience	- I can create an effective stop-frame animation	- I can identify digital devices that can record sound and play it back	- I can compare features in different videos	- I can discuss the different types of media used on websites

explain which		- I can explain why		- I can explain that	
tools I used	- I can sort	little changes are	 I can identify the 	video is a visual	- I can explore a
	devices into old	needed for each	inputs and outputs	media format	website
- I can make	and new	frame	required to play		
marks on a			audio or record	- I can identify	- I know that
screen and	- I can talk	- I can predict what	sound	features of videos	websites are
explain which	about how to	an animation will			written in HTML
tools I used	take a	look like	- I can recognise	- I can experiment	
	photograph	IOOK IIIKO	the range of sounds	with different	- I can draw a web
- I can use the		- I can break down a	that can be	camera angles	page layout that
paint tools to	"- I can explain	story into settings,	recorded	camera angles	suits my purpose
draw a picture	the process of	characters and		Loop identify and	
	taking a good		- I can discuss what	- I can identify and	- I can recognise
"- I can make	photograph	events	other people	find features on a	the common
marks with the	l san avalain		include when	digital video	features of a web
square and line	- I can explain	- I can create a	recording sound for	recording device	page
tools	why a photo	storyboard	a podcast		1
Loop you tho	looks better in		Loop guagest how	- I can make use of	 I can suggest media to include
 I can use the shape and line 	portrait or landscape	- I can describe an	 I can suggest how to improve my 	a microphone	
tools effectively	format	animation that is	recording		on my page
tools effectively	Torrial	achievable on	recording	- I can capture	- I can describe
- I can use the	- I can take	screen	- I can use a device	video using a range	what is meant by
shape and line	photos in both		to record audio and	of filming	the term 'fair use'
tools to recreate	landscape and	- I can evaluate the	play back sound	techniques	
the work of an	portrait format	quality of my	play baok boaria	·	- I can find
artist"	portrait rormat	animation	- I can discuss why	- I can review how	copyright-free
"- I can choose			it is useful to be	effective my video	images
appropriate	"- I can discuss	- I can review a	able to save digital	is	9
shapes	how to take a	sequence of frames	recordings		- I can say why I
'	good	to check my work	J	- I can suggest	should use
- I can create a	photograph	to oncok my work	- I can plan and	filming techniques	copyright-free
picture in the		- I can use onion	write the content for	for a given purpose	images
style of an artist	- I can identify	skinning to help me	a podcast	loi a giveri purpose	· ·
	what is wrong		- I can save a	Loop proots and	- I can add content
- I can make	with a	make small changes	digital recording as	- I can create and	to my own web
appropriate	photograph	between frames	a file	save video content	page
colour choices					
	- I can improve	- I can evaluate	- I can discuss	- I can decide which	 I can evaluate
"- I can choose	a photograph by	another learner's	ways in which	filming techniques I	what my web page
appropriate	retaking it	animation	audio recordings	will use	looks like on
paint tools and			can be altered		different devices
colours to	"- I can	- I can explain ways		- I can outline the	and suggest/make
recreate the	experiment with	to make my	- I can edit sections	scenes of my video	edits
work of an artist	different light	animation better	of of an audio		
	sources		recording	- I can explain how	
				to improve a video	

Hardware	tablet	tablet	laptop, Chromebook	Laptop	Laptop,	Laptop,
Programming A	1.6 Programming animations	2.6 Programming Quizzes	Sequencing sounds	Repetition in shapes	5.3 Selection in physical computing	6.3 Variables in games
	- I can say which tools were helpful and why - I know that different paint tools do different jobs "- I can change the colour and brush sizes - I can make dots of colour on the page - I can use dots of colour to create a picture in the style of an artist on my own "- I can explain that pictures can be made in lots of different ways - I can say whether I prefer painting using a computer or using paper - I can spot the differences between painting on a computer and on pape	- I can explore the effect that light has on a photo - I can focus on an object "- I can explain my choices - I can recognise that images can be changed - I can use a tool to achieve a desired effect "- I can apply a range of photography skills to capture a photo - I can identify which images are real and which have been changed - I can recognise which images have been changed"	- I can improve my animation based on feedback - I can add other media to my animation - I can evaluate my final film - I can explain why I added other media to my animation	- I can open a digital recording from a file - I can choose suitable sounds to include in a podcast - I can discuss sounds that other people combine - I can use editing tools to arrange sections of audio - I can discuss the features of a digital recording I like - I can explain that digital recordings need to be exported to share them - I can suggest improvements to a digital recording	by reshooting and editing - I can select the correct tools to make edits to my video - I can store, retrieve, and export my recording to a computer - I can evaluate my video and share my opinions - I can make edits to my video and improve the final outcome - I can recognise that my choices when making a video will impact on the quality of the final outcome	- I can preview what my web page looks like - I can describe why navigation paths are useful - I can explain what a navigation path is - I can make multiple web pages and link them using hyperlinks - I can create hyperlinks to link to other people's work - I can evaluate the user experience of a website - I can explain the implication of linking to content owned by others

Software	Scratch Jr	Scratch Jr	Scratch	FMSLogo	Crumble controller + starter kit + motor	Scratch
Vocabulary	ScratchJr, command, sprite, compare, programming, area, block, joining, start, run, program, background, delete, reset, algorithm, predict, effect, change, value, instructions, design.	sequence, command, program, run, start, outcome, predict, blocks, design, actions, sprite, project, modify, change, algorithm, build, match, compare, debug, features, evaluate, decomposition, code.	Scratch, programming, blocks, commands, code, sprite, costume, stage, backdrop, motion, turn, point in direction, go to, glide, sequence, event, task, design, run the code, order, note, chord, algorithm, bug, debug, code.	Logo (programming environment), program, turtle, commands, code snippet, algorithm, design, debug, pattern, repeat, repetition, count-controlled loop, value, trace, decompose, procedure	microcontroller, USB, components, connection, infinite loop, output component, motor, repetition, count- controlled loop, Crumble controller, switch, LED, Sparkle, crocodile clips, connect, battery box, program, condition, Input, output, selection, action, debug, circuit, power, cell, buzzer	variable, change, name, value, set, design, event, algorithm, code, task, artwork, program, project, code, test, debug, improve, evaluate, share, assign, declare
	To choose a command for a given purpose To show that a series of commands can be joined together To identify the effect of changing a value To explain that each sprite has its own instructions To design the parts of a project	To explain that a sequence of commands has a start To explain that a sequence of commands has an outcome To create a program using a given design To change a given design To create a program using my own design To decide how my project can be improved	To explore a new programming environment To identify that commands have an outcome To explain that a program has a start To recognise that a sequence of commands can have an order To change the appearance of my project To create a project from a task description	To identify that accuracy in programming is important To create a program in a text-based language To explain what 'repeat' means To modify a count-controlled loop to produce a given outcome To decompose a task into small steps To create a program that uses count-controlled loops to produce a given outcome	To control a simple circuit connected to a computer To write a program that includes count-controlled loops To explain that a loop can stop when a condition is met To explain that a loop can be used to repeatedly check whether a condition has been met To design a physical project that includes selection To create a program that controls a physical computing project	To define a 'variable' as something that is changeable To explain why a variable is used in a program To choose how to improve a game by using variables To design a project that builds on a given example To use my design to create a project To evaluate my project

To use my					
algorithm to					
create a					
program					
	pare "- I can identify	- I can explain that	- I can create a	- I can create a	- I can explain that
"- I can comp different	that a program	objects in Scratch	code snippet for a	simple circuit and	the way that a
		have attributes	given purpose	connect it to a	variable changes
programming	started	(linked to)	giveri purpose	microcontroller	can be defined
tools	Started	(III Ked to)	- I can explain the	microcontroller	can be defined
	- I can identify	- I can identify the	effect of changing a	- I can explain what	- I can identify
- I can find	the start of a	objects in a Scratch	value of a	an infinite loop	examples of
which	sequence	project (sprites,	command	does	information that is
commands		backdrops)			variable
move a sprite	- I can show		- I can program a	- I can program a	
	how to run my	- I can recognise	computer by typing	microcontroller to	- I can identify that
- I can use	program	that commands in	commands	make an LED	variables can hold
commands to		Scratch are		switch on	numbers or letters
move a sprite	e "- I can change	represented as	- I can test my		
	the outcome of	blocks	algorithm in a text-	- I can connect	- I can explain that
"- I can run n	ny a sequence of		based language	more than one	a variable has a
program	commands	- I can choose a		output component	name and a value
		word which	- I can use a	to a microcontroller	
- I can use a	- I can match	describes an on-	template to create a		- I can identify a
start block in	a two sequences	screen action for my	design for my	- I can design	program variable
program	with the same	plan	program	sequences that use	as a placeholder in
Firegrams	outcome			count-controlled	memory for a
- I can use m	ore I and and dist	- I can create a	- I can write an	loops	single value
than one blo	- I call predict	program following a	algorithm to	Loop upo o count	Loop recognice
by joining the	the outcome of	design	produce a given outcome	- I can use a count- controlled loop to	- I can recognise that the value of a
together	commands"	- I can identify that	outcome	control outputs	variable can be
together	Commands	each sprite is	- I can identify	Control outputs	changed
"- I can chan	ge "- I can build the	controlled by the	everyday tasks that	- I can design a	Changed
the value	sequences of	commands I choose	include repetition	conditional loop	- I can decide
the value	blocks I need		as part of a	oonanonanoop	where in a
- I can find		- I can create a	sequence, eg	- I can explain that	program to change
blocks which	- I can decide	sequence of	brushing teeth,	a condition is either	a variable
	which blocks to	connected	dance moves	true or	
have numbe	use to meet the	commands			- I can make use of
I sam savvu	design		- I can identify	- I can program a	an event in a
- I can say w		- I can explain that	patterns in a	microcontroller to	program to set a
happens who	" I oan ton the	the objects in my	sequence	respond to an input	variable
change a val	aotionio oi a	project will respond			
	sprite in an	exactly to the code	- I can use a count-	- I can explain that	- I can recognise
"- I can add	algorithm"		controlled loop to	a condition being	that the value of a
blocks to each			produce a given	met can start an	variable can be
of my sprites			outcome	action	used by a program

Hardware	Laptop, Chromebook	Laptop, Chromebook	Laptop, Chromebook	Laptop Data logger	Laptop, Chromebook	Laptop, Chromebook
Data and information	1.4 Grouping Data	2.4 Pictograms	3.4 Branching databases	4.4 Data Logging	5.4 Flat-file databases	6.4 Introduction to spreadsheets
	- I can delete a sprite	"- I can choose backgrounds for the design	- I can start a program in different ways	- I can choose which values to change in a loop	- I can identify a condition and an action in my project	- I can choose the artwork for my project

Software	Google Slides	j2data Pictogram	j2data Branch and Pictogram	Data logger and associated software	j2data Database	Google Sheets
Vocabulary	object, label, group, search, image, property, colour, size, shape, value, data set, more, less, most, fewest, least, the same	more than, less than, most, least, common, popular, organise, data, object, tally chart, votes, total, pictogram, enter, data, compare, objects, count, explain, attribute, group, same, different, conclusion, block diagram, sharing	attribute, value, questions, table, objects, branching, database, objects, equal, even, separate, structure, compare, order, organise, selecting, information, decision tree.	data, table, layout, input device, sensor, logger, logging, data point, interval, analyse, dataset, import, export, logged, collection, review, conclusion.	database, data, information, record, field, sort, order, group, search, value, criteria, graph, chart, axis, compare, filter, presentation.	data, collecting, table, structure, spreadsheet, cell, cell reference, data item, format, formula, calculation, spreadsheet, input, output, operation, range, duplicate, sigma, propose, question, data set, organised, chart, evaluate, results, sum, comparison, software, tools.
	To label objects To identify that objects can be counted To describe objects in different ways To count objects with the same properties To compare groups of objects To answer questions about groups of objects	To recognise that we can count and compare objects using tally charts To recognise that objects can be represented as pictures To create a pictogram To select objects by attribute and make comparisons To recognise that people can be described by attributes To explain that we can present	To create questions with yes/no answers To identify the object attributes needed to collect relevant data To create a branching database To explain why it is helpful for a database to be well structured To identify objects using a branching database To compare the information shown in a pictogram with a branching database	To explain that data gathered over time can be used to answer questions To use a digital device to collect data automatically To explain that a data logger collects 'data points' from sensors over time To use data collected over a long duration to find information To identify the data needed to answer questions To use collected data to answer questions	To use a form to record information To compare paper and computer-based databases To outline how grouping and then sorting data allows us to answer questions To explain that tools can be used to select specific data To explain that computer programs can be used to compare data visually To apply my knowledge of a database to ask and answer real-	To identify questions which can be answered using data To explain that objects can be described using data To explain that formulas can be used to produce calculated data To apply formulas to data, including duplicating To create a spreadsheet to plan an event To choose suitable ways to present data

	using a				
	_				
"- I can describe	computer "- I can compare	- I can create two	- I can choose a	- I can create	- I can answer
objects using	totals in a tally	groups of objects	data set to answer	multiple questions	questions from an
labels	chart	separated by one	a given question	about the same	existing data set
labels	Chart	attribute	a giveri question	field	existing data set
- I can identify	- I can record	allibule	- I can identify data	lielu	- I can ask simple
the label for a	data in a tally	- I can investigate	that can be	- I can explain how	relevant questions
group of objects	chart	questions with	gathered over time	information can be	which can be
group or objects	oriait	yes/no answers	gathered over time	recorded	answered using
- I can match	- I can represent	y como anomoro	- I can suggest	10001404	data
objects to	a tally count as	- I can make up a	questions that can	- I can order, sort,	data
groups"	a total"	yes/no question	be answered using	and group my data	- I can explain the
groupo	a total	about a collection of	a given data set	cards	relevance of data
"- I can count a	"- I can enter	objects	a givoir data oot	carac	headings
group of objects	data onto a	0.0,00.0	- I can explain that	- I can choose	
g. cap c. cajecte	computer	- I can arrange	sensors are input	which field to sort	- I can apply an
- I can count		objects into a tree	devices	data by to answer a	appropriate
objects	- I can use a	structure		given question	number format to a
,	computer to		- I can identify that	3 1 1	cell
- I can group	view data in a	- I can create a	data from sensors	- I can explain what	
objects"	different format	group of objects	can be recorded	a 'field' and a	- I can build a data
'		within an existing		'record' is in a	set in a
"- I can describe	- I can use	group	- I can use data	database	spreadsheet
a property of an	pictograms to		from a sensor to		application
object	answer simple	- I can select an	answer a given	- I can navigate a	
	questions about	attribute to separate	question	flat-file database to	- I can explain
- I can describe	objects"	objects into groups		compare different	what an item of
an object			- I can identify a	views of information	data is
	"- I can explain	- I can group objects	suitable place to		
- I can find	what the	using my own	collect data	- I can combine	- I can construct a
objects with	pictogram	yes/no questions		grouping and	formula in a
similar	shows		- I can identify the	sorting to answer	spreadsheet
properties"		- I can prove my	intervals used to	more specific	
	- I can organise	branching database	collect data	questions	- I can explain the
"- I can count	data in a tally	works			relevance of a
how many	chart	Lancard C. C.	- I can talk about	- I can explain how	cell's data type
objects share a		- I can select objects	the data that I have	information can be	
property	- I can use a	to arrange in a	captured	grouped	- I can identify that
	tally chart to	branching database	Lagadan esta		changing inputs
- I can group	create a	Loop command to	- I can import a	- I can group	changes outputs
objects in more	pictogram"	- I can compare two	data set	information to	- I can apply a
than one way	"- I can answer	branching database	Loop ups s	answer questions	formula to multiple
- I can group	'more than'/'less	structures	- I can use a	- I can choose	cells by duplicating
similar objects"	than' and		computer program	multiple criteria to	it - I can create a
	'most/least'		to sort data	answer a given	
				question	formula which

Creating media	1.5 Digital writing	a computer - I can use a computer program to present information in different ways" 2.5 Digital Music	3	4 Photo editing	5. 5	3D modelling
	- I can describe groups of objects - I can record how many objects are in a group "- I can compare groups of objects - I can decide how to group objects to answer a question - I can record and share what I have found"	- I can create a pictogram to arrange objects by an attribute - I can tally objects using a common attribute" "- I can choose a suitable attribute to compare people - I can collect the data I need - I can create a pictogram and draw conclusions from it" "- I can give simple examples of why information should not be shared - I can share what I have found out using a computer.	given attributes - I can explain that questions need to be ordered carefully to split objects into similarly sized groups - I can create questions and apply them to a tree structure - I can select a theme and choose a variety of objects - I can use my branching database to answer questions - I can compare two ways of presenting information - I can explain what a branching database tells me - I can explain what a pictogram tells me	data in different ways - I can plan how to collect data using a data logger - I can propose a question that can be answere using logged data - I can use a data logger to collect data - I can draw conclusions from the data that I have collected - I can explain the benefits of using a data logger - I can interpret data that has been collected using a data logger	which field and value are required to answer a given question - I can outline how 'AND' and 'OR' can be used to refine data selection - I can explain the benefits of using a computer to create graphs - I can refine a chart by selecting a particular filter - I can select an appropriate chart to visually compare data - I can ask questions that will need more than one field to answer - I can present my findings to a group - I can refine a search in a real-world context	- I can recognise that data can be calculated using different operations - I can apply a formula to calculate the data I need to answer questions - I can explain why data should be organised - I can use a spreadsheet to answer questions - I can produce a graph - I can suggest when to use a table or graph - I can use a graph to show the answer to questions
	"- I can choose how to group	questions about an attribute	- I can create yes/no questions using	- I can use a computer to view	- I can choose	includes a range of cells

			Desktop		Introduction to	
Hardware	Laptop,	Laptop,	publishing Laptop	Laptop	vector graphics Laptop	Laptop,
Software	Chromebook	Chromebook Chrome Music	Convo	Doint NET /for	Coogle Drawings	Chromebook Tinkercad
Suitware	Google Docs or Microsoft Word	Lab	Canva.com	Paint.NET (for Microsoft Windows)	Google Drawings	Tirikercau
Vocabulary	word processor, keyboard, keys, letters, type, numbers, space, backspace, text cursor, capital letters, toolbar, bold, italic, underline, mouse, select, font, undo, redo, format, compare, typing, writing.	music, quiet, loud, feelings, emotions, pattern, rhythm, pulse, pitch, tempo, rhythm, notes, create, emotion, beat, instrument, open, edit.	text, images, advantages, disadvantages, communicate, font, style, landscape, portrait, orientation, placeholder, template, layout, content, desktop publishing, copy, paste, purpose, benefits.	image, edit, digital, crop, rotate, undo, save, adjustments, effects, colours, hue, saturation, sepia, vignette, image, retouch, clone, select, combine, made up, real, composite, cut, copy, paste, alter, background, foreground, zoom, undo, font.	vector, drawing tools, object, toolbar, vector drawing, move, resize, colour, rotate, duplicate/copy, zoom, select, align, modify, layers, order, copy, paste, group, ungroup, reuse, reflection	TinkerCAD, 2D, 3D, shapes, select, move, perspective, view, handles, resize, lift, lower, recolour, rotate, duplicate, group, cylinder, cube, cuboid, sphere, cone, prism, pyramid, placeholder, hollow, choose, combine, construct, evaluate, modify.
	To use a computer to write To add and remove text on a computer To identify that the look of text can be changed on a computer To make careful choices when changing text To explain why I used the tools that I chose	To say how music can make us feel To identify that there are patterns in music To describe how music can be used in different ways To show how music is made from a series of notes To create music for a purpose	To recognise how text and images convey information To recognise that text and layout can be edited To choose appropriate page settings To add content to a desktop publishing publication To consider how different layouts can suit different purposes	To explain that digital images can be changed To change the composition of an image To describe how images can be changed for different uses To make good choices when selecting different tools To recognise that not all images are real	To identify that drawing tools can be used to produce different outcomes To create a vector drawing by combining shapes To use tools to achieve a desired effect To recognise that vector drawings consist of layers To group objects to make them easier to work with To evaluate my	To use a computer to create and manipulate three-dimensional (3D) digital objects To compare working digitally with 2D and 3D graphics To construct a digital 3D model of a physical object To identify that physical objects can be broken down into a collection of 3D shapes

To compare		To consider the	To evaluate how		To design a digital
·	To review and	benefits of desktop	changes can		model by
writing on a		publishing	improve an image		combining 3D
computer with	refine our	publishing	improve an image		objects
writing on pape	er computer work				00,000
					To develop and
					improve a digital
					3D model
"- I can identify	"- I can describe	- I can explain the	- I can explain the	- I can discuss how	- I can discuss the
and find keys	on how music	difference between	effect that editing	a vector drawing is	similarities and
a keyboard	makes me feel,	text and images	can have on an	different from	differences
	e.g. happy or	- I can identify the	image	paper-based	between 2D and
- I can open a	sad	advantages and	- I can explore how	drawings	3D shapes
word processo	r	disadvantages of	images can be	- I can identify the	- I can explain why
·	- I can identify	using text and	changed in real life	main drawing tools	we might represent
- I can	simple	images	Langidantifi.		3D objects on a
recognise keys		Loop recession	- I can identify	- I can recognise	computer
on a keyboard	pieces of music	- I can recognise that text and images	changes that we can make to an	that vector drawings are made	- I can select,
		can communicate		using shapes	move, and delete a
I can enter tex	t - I can listen	messages clearly	image	using snapes	digital 3D shape
into a compute		illessages clearly	- I can change the	- I can explain that	digital 3D Shape
into a compate	concentration to	- I can change font	composition of an	each element	- I can change the
- I can use	a range of	style, size, and	image by selecting	added to a vector	colour of a 3D
backspace to	music (links to	colours for a given	parts of it	drawing is an object	object
remove text	the Music	purpose		3 • • • • • • • • • • • • • • • • • • •	
Temove text	curriculum)	' '	- I can consider	- I can identify the	- I can identify how
- I can use	Curricularii)	- I can edit text	why someone	shapes used to	graphical objects
letter, number,	"- I can create a		might want to	make a vector	can be modified
		- I can explain that	change the	drawing	
and space key	s rhythm pattern	text can be changed	composition of an		- I can resize a 3D
" Loop avalata	l oon symleir	to communicate	image	- I can move,	object
"- I can explain	· ·	more clearly		resize, and rotate	_
what the keys	that music is		- I can explain what	objects I have	- I can position 3D
that I have	created and	- I can create a	has changed in an	duplicated	objects in relation
learnt about	played by	template for a	edited image	Laga avelata las	to each other
already do	humans	particular purpose	Loop shoops	- I can explain how	Loop rotate a 2D
		- I can define the	- I can choose	alignment grids and	- I can rotate a 3D
- I can identify	- I can play an	term 'page	effects to make my image fit a scenario	resize handles can be used to improve	object
the toolbar and		orientation	image in a scenario	consistency	- I can select and
use bold, italic	_	Gioritation	- I can explain why	Consistency	duplicate multiple
and underline	rhythm pattern	- I can recognise	my choices fit a	- I can modify	3D objects
- I can type		placeholders and	scenario	objects to create	
capital letters"	"- I can connect	say why they are		different effects	- I can create
"- I can	images with	important			digital 3D objects
change the for	nt sounds	1			3

- I can select a	Loop relate on	- I can choose the	- I can talk about changes made to	- I can use the zoom tool to help	of an appropriate size
	- I can relate an	best locations for	images	me add detail to my	SIZE
word by double-	idea to a piece	my content	Illiages	drawings	- I can group a
clicking	of music	Thy content	- I can choose	urawings	digital 3D shape
		- I can make	appropriate tools to	- I can change the	and a placeholder
- I can select all	- I can use a	changes to content	retouch an image	order of layers in a	to create a hole in
of the text by	computer to	after I've added it	Telouch an image	vector drawing	an object
clicking and	experiment with	alter i ve added it	- I can give	vector drawing	an object
dragging	pitch and	- I can paste text	examples of	- I can identify that	- I can identify the
	duration	and images to	positive and	each added object	3D shapes needed
"- I can decide if		create a magazine	negative effects	creates a new layer	to create a model
my changes	"- I can identify	cover	that retouching can	in the drawing	of a real-world
have improved	that music is a	33.3.	have on an image		object
my writing	sequence of	- I can choose a	The second secon	- I can identify	,
, ,	notes	suitable layout for a	- I can identify how	which objects are in	- I can choose
- I can say what		given purpose	an image has been	the front layer or in	which 3D objects I
tool I used to	- I can refine my		retouched	the back layer of a	need to construct
change the text	musical pattern	- I can identify		drawing	my model
orialigo trio toxt	on a computer	different layouts	- I can combine		
- I can use	on a compator		parts of images to	- I can copy part of	- I can modify
'undo' to	- I can use a	- I can match a	create new images	a drawing by	multiple 3D objects
remove	computer to	layout to a purpose		duplicating several	
changes	create a musical		- I can sort images	objects	- I can plan my 3D
Changes	pattern using	- I can compare	into 'fake' or 'real'	1	model
" Loop compare	three notes	work made on	and explain my	- I can group to	
"- I can compare	tillee flotes	desktop publishing	choices	create a single	- I can decide how
using a	" Loop dooribo	to work created by hand	- I can talk about	object	my model can be improved
computer with	"- I can describe	Hallu	fake images around	- I can reuse a	Improved
using a pencil	an animal using	- I can identify the	me	group of objects to	- I can evaluate my
and paper	sounds	uses of desktop	1110	further develop my	model against a
1	1	publishing in the	- I can compare the	vector drawing	given criterion
- I can say	- I can explain	real world	original image with	Trous and anning	9
which method I	my choices		my completed	- I can apply what I	- I can modify my
like best	1	- I can say why	publication	have learned about	model to improve it
	- I can savey	desktop publishing	,	vector drawings	, i
- I can write a	work	might be helpful	- I can consider the		
message on a			effect of adding	- I can suggest	
computer and	"- I can explain		other elements to	improvements to a	
on paper"	how I made my		my work	vector drawing	
	work better				
			- I can evaluate the	- I create	
	- I can listen to		impact of my	alternatives to	
	music and		publication on	vector drawings	
	describe how it		others through feedback		
	makes me feel		ICCUDACK		

	- I can reopen my work"				
Programming B		3.6 Events and Actions in programs	4.6 Repetition in games	5.6 Selection in quizzes	6.6 Sensing movement
Hardware		Laptop, Chromebook	Laptop, Chromebook	Laptop, Chromebook	Laptop, Chromebook
Software		Scratch	Scratch	Scratch	micro:bit and Microsoft MakeCode
Vocabulary		motion, event, sprite, algorithm, logic, move, resize, extension block, pen up, set up, pen, design, action, debugging, errors, setup, code, test, debug, actions.	Scratch, programming, sprite, blocks, code, loop, repeat, value, infinite loop, count-controlled loop, costume, repetition, forever, animate, event block, duplicate, modify, design, algorithm, debug, refine, evaluate.	Selection, condition, true, false, count- controlled loop, outcomes, conditional statement, algorithm, program, debug, question, answer, task, design, input, implement, test, run, setup, operator	Micro:bit, MakeCode, input, process, output, flashing, USB, trace, selection, condition, if then else, variable, random, sensing, accelerometer, value, compass, direction, navigation, design, task, algorithm, step counter, plan, create, code, test, debug.
		To explain how a sprite moves in an existing project To create a program to move a sprite in four directions To adapt a program to a new context To develop my program by adding features To identify and fix bugs in a program	To develop the use of count-controlled loops in a different programming environment To explain that in programming there are infinite loops and count controlled loops To develop a design that includes two or more loops which run at the same time	To explain how selection is used in computer programs To relate that a conditional statement connects a condition to an outcome To explain how selection directs the flow of a program To design a program which uses selection	To create a program to run on a controllable device To explain that selection can control the flow of a program To update a variable with a user input To use an conditional statement to compare a variable to a value

To design and create a maze-based challenge	To modify an infinite loop in a given program To design a project that includes repetition To create a project that includes repetition	To create a program which uses selection To evaluate my program	To design a project that uses inputs and outputs on a controllable device To develop a program to use inputs and outputs on a controllable device
- I can choose which keys to use for actions and explain my choices	- I can list an everyday task as a set of instructions including repetition	- I can identify conditions in a program - I can modify a	- I can apply my knowledge of programming to a new environment
- I can explain the relationship between an event and an action	- I can modify a snippet of code to create a given outcome	condition in a program - I can recall how conditions are used in selection	- I can test my program on an emulator - I can transfer my program to a controllable device
- I can identify a way to improve a program	outcome of a snippet of code	- I can create a program with different outcomes using selection	- I can determine the flow of a program using
- I can choose a character for my project	when to use a count-controlled and an infinite loop	- I can identify the condition and outcomes in an 'if	- I can identify examples of
- I can choose a suitable size for a character in a maze	- I can modify loops to produce a given outcome	then else' Statement	conditions in the real world
- I can program movement	- I can recognise that some programming languages enable more than one	- I can use selection in an infinite loop to check a condition - I can design the flow of a program	- I can use a variable in an if, then, else statement to select the flow of a program

	- I can choose blocks to set up my program	process to be run at once	which contains 'if then else'	- I can experiment with different physical inputs
	- I can consider the real world when making design choices	- I can choose which action will be repeated for each object	- I can explain that program flow can branch according to a condition	- I can explain that if you read a variable, the value remains
	- I can use a programming extension	- I can evaluate the effectiveness of the repeated sequences used in my program	- I can show that a condition can direct program flow in one of two ways	- I can use a condition to change a variable
	- I can build more sequences of commands to make my design work	- I can explain what the outcome of the repeated action should be	- I can identify the outcome of user input in an algorithm	- I can explain the importance of the order of conditions in else, if statements
	- I can choose suitable keys to turn on additional features	- I can explain the effect of my changes	I can outline a given taskI can use a design	- I can modify a program to achieve a different outcome
	- I can identify additional features (from a given set of blocks)	- I can identify which parts of a loop can be changed	format to outline my project - I can implement my algorithm to	- I can use an operand (e.g. <>=) in an if, then statement
	- I can match a piece of code to an outcome	- I can re-use existing code snippets on new sprites	create the first section of my program	- I can decide what variables to include in a project
	- I can modify a program using a design	- I can develop my own design explaining what my project will do	I can share my program with othersI can test my program	- I can design the algorithm for my project

			- I can test a program against a given design - I can evaluate my project - I can implement my design - I can make design choices and justify them	- I can evaluate the use of repetition in a project - I can select key parts of a given project to use in my own design - I can build a program that follows my design - I can evaluate the steps I followed when building my project - I can refine the algorithm in my design	- I can extend my program further - I can identify the setup code I need in my program - I can identify ways the program could be improved	- I can design the program flow for my project - I can create a program based on my design - I can test my program against my design - I can use a range of approaches to find and fix bugs
Algorithms	1.3 Moving a robot	2.3 Robot Algorithms				
Hardware	Bee-bot or other fixed-movement floor robot	Bee-bot, Blue- Bot, or other fixed – movement floor robot				
Software						
Vocabulary	Bee-Bot,	instruction,				
	forwards, backwards, turn,	sequence, clear, unambiguous,				
	clear, go,	algorithm,				
	commands,	program, order,				
	instructions,	prediction,				

directions, left, right, route, plan, algorithm,	artwork, design, route, mat, debugging,		
program.	decomposition		
To explain what a given command will do	To describe a series of instructions as a sequence		
To act out a given word	To explain what happens when we change the order of		
To combine forwards and backwards	instructions		
commands to make a sequence	To use logical reasoning to predict the outcome of a program (series of commands)		
To combine four direction commands to			
make sequences	To explain that programming projects can have code and artwork		
To plan a simple program	artwork		
To find more than one	To design an algorithm		
solution to a problem	To create and debug a program that I have written		

"- I can match a	"- I can choose		
command to an	a series of		
outcome	words that can		
	be enacted as a		
	sequence		
- I can predict			
the outcome of			
a command on	- I can follow		
a device	instructions		
a device			
	given by		
	someone else		
- I can run a			
command on a			
device	- I can give clear		
	and		
	unambiguous		
"- I can follow	instructions		
an instruction			
an instruction			
	"- I can create		
	different		
- I can give	algorithms for a		
directions	range of		
	sequences		
	(using the same		
- I can recall			
words that can	commands)		
be acted out			
	- I can show the		
"- I can compare	difference in		
forwards and	outcomes		
	between two		
backwards	sequences that		
movements	consist of the		
	same		
	commands		
 I can predict 			
the outcome of			
a sequence	- I can use an		
involving	algorithm to		
forwards and			
	program a		

backwards	sequence on a		
commands	floor robot		
 I can start a 	"- I can compare		
sequence from	my prediction to		
the same place	the program		
	outcome		
	outcome		
"- I can compare			
left and right	- I can follow a		
turns	sequence		
tarrio	ooquonoo		
- I can	- I can predict		
experiment with	the outcome of		
turn and move	a sequence		
commands to	a 554a555		
move a robot			
	"- I can explain		
	the choices I		
- I can predict	made for my		
the outcome of	mat design		
	mai design		
a sequence			
involving up to			
four commands	- I can identify		
	different routes		
	around my mat		
" aan ahaaaa	around my mat		
"- I can choose			
the order of			
commands in a	- I can test my		
sequence	mat to make		
	sure that it is		
	usable		
تعديدا جام مرموا	usable		
- I can debug			
my program			
	"- I can create		
	an algorithm to		
Loop ovalain			
- I can explain	meet my goal		
what my			
	i l	1	1

program should	- I can explain		
do	what my		
	algorithm should		
	achieve		
"- I can identify			
several possible			
solutions	- I can use my		
	algorithm to		
	create a		
- I can plan two	program		
programs			
	"- I can plan		
- I can use two	algorithms for		
different	different parts of		
programs to get	a task		
to the same			
place"			
	- I can put		
	together the		
	different parts of		
	my program		
	- I can test and		
	debug each part		
	of the program"		
0.11			

eSafety

At Tushingham with Grindley Primary School we teach computing using the 'Teach Computing' curriculum and E-Safety through Project Evolve: Education for a Connected World.

E-safety objectives are integral to the Computing and PSHE curriculum. We adapt some lessons in the Teach Computing units and teach esafety units from Project Evolve in each year group from Reception to year 6.

E-safety strands from ProjectEVOLVE for all year groups include:

- Self-Image and Identify
- Online Relationships
- Online Reputation
- Online Bullying
- Managing Online Information
- Health, Wellbeing the Lifestyle
- Privacy and Security and Copyright and Ownership

As part of the e-safety curriculum we use Project Evolve knowledge maps to assess where pupil's online safety knowledge is currently, use this to plan what you to teach, then see what impact that has had.

Coverage of e-safety objectives will be delivered through PSHE, Computing and as standalone lessons as appropriate to the needs of the class.

EYFS: e-Safety unit

	Lesson Title	e-Safety success criteria [& Project Evolve resources]
1	Self Image and Identity	•I can recognise, online or offline, that anyone can say 'no' - 'please stop' - 'I'll tell' - 'I'll ask' to somebody who makes them feel sad, uncomfortable, embarrassed or upset.
2	Online relationships	•I can recognise some ways in which the internet can be used to communicate. •I can give examples of how I (might) use technology to communicate with people I know
3	Online reputation	•I can identify ways that I can put information on the internet.
4	Online bullying	I can describe ways that some people can be unkind online. I can offer examples of how this can make others feel
5	Managing online information	I can talk about how to use the internet as a way of finding information online I can identify devices I could use to access information on the internet

Year 1: e-Safety unit

	Lesson Title	e-Safety success criteria [& Project Evolve resources]
1	Self image and identity	• I can recognise that there may be people online who could make someone feel sad, embarrassed or upset
2	Online relationships	 I can give examples of when I should ask permission to do something online and explain why this is important I can use the internet with adult support to communicate with people I know (e.g. video call apps or services). I can explain why it is important to be considerate and kind to people online and to respect their choices. I can explain why things one person finds funny or sad online may not always be seen in the same way by others.
3	Online reputation	I can recognise that information can stay online and could be copied I can describe what information I should not put online without asking a trusted adult first
4	Online bullying	• I can describe how to behave online in ways that do not upset others and can give examples.
5	Privacy and security	I can recognise more detailed examples of information that is personal to someone (e.g where someone lives and goes to school, family names). I can explain why it is important to always ask a trusted adult before sharing any personal information online, belonging to myself or others.

Year 2: e-Safety unit

	Lesson Title	e-Safety success criteria [& Project Evolve resources]
1	Self image and identity	• <u>I can give examples of issues online that might make someone feel sad, worried, uncomfortable or frightened; I can give examples of how they might get help.</u>
2	Online relationships	• <u>I can explain who I should ask before sharing things about myself or others online.</u>
3	Online reputation	 L can explain how information put online about someone can last for a long time. L can describe how anyone's online information could be seen by others. L know who to talk to if something has been put online without consent or if it is incorrect.
4	Online bullying	I can explain what bullying is, how people may bully others and how bullying can make someone feel. I can explain why anyone who experiences bullying is not to blame I can talk about how anyone experiencing bullying can get help.
• I can demonstration • I can demonstration • I can explain true' or 're		I can use simple keywords in search engines I can demonstrate how to navigate a simple webpage to get to information I need (e.g. home, forward, back buttons; links, tabs and sections). I can explain what voice activated searching is and how it might be used, and know it is not a real person (e.g. Alexa, Google Now, Siri). I can explain the difference between things that are imaginary, 'made up' or 'make believe' and things that are 'true' or 'real' I can explain why some information I find online may not be real or true.
6	Privacy and security	I can explain and give examples of what is meant by 'private' and 'keeping things private'. I can describe and explain some rules for keeping personal information private (e.g. creating and protecting passwords).

Year 3: e-Safety unit

	Lesson Title	e-Safety success criteria [& Project Evolve resources]
1	Self image and identity	 I can explain what is meant by the term 'identity'. I can explain how people can represent themselves in different ways online. I can explain ways in which someone might change their identity depending on what they are doing online (e.g. gaming; using an avatar; social media) and why.
2	Online relationships 1	I can describe ways people who have similar likes and interests can get together online. I can explain what it means to 'know someone' online and why this might be different from knowing someone offline. I can explain what is meant by 'trusting someone online', why this is different from 'liking someone online', and why it is important to be careful about who to trust online including what information and content they are trusted with.
3	Online relationships 2	 I can explain why someone may change their mind about trusting anyone with something if they feel nervous, uncomfortable or worried. I can explain how someone's feelings can be hurt by what is said or written online. I can explain the importance of giving and gaining permission before sharing things online; how the principles of sharing online is the same as sharing offline e.g. sharing images and videos.
4	Online bullying	I can describe appropriate ways to behave towards other people online and why this is important I can give examples of how bullying behaviour could appear online and how someone can get support.
5	Health and wellbeing	 I can explain why spending too much time using technology can sometimes have a negative impact on anyone; I can give some examples of both positive and negative activities where it is easy to spend a lot of time engaged I can explain why some online activities have age restrictions, why it is important to follow them and know who I can talk to if others pressure me to watch or do something online that makes me feel uncomfortable (e.g. age restricted gaming or web sites).

Year 4: e-Safety unit

	Lesson Title	e-Safety success criteria [& Project Evolve resources]
1	Self image and identity	 I can explain how my online identity can be different to my offline identity. I can describe positive ways for someone to interact with others online and understand how this will positively impact on how others perceive them. I can explain that others online can pretend to be someone else, including my friends, and can suggest reasons why they might do this.
2	Online relationships	 L can describe strategies for safe and fun experiences in a range of online social environments (e.g. livestreaming, gaming platforms) L can give examples of how to be respectful to others online and describe how to recognise healthy and unhealthy online behaviours. L can explain how content shared online may feel unimportant to one person but may be important to other people's thoughts feelings and beliefs.
3	Online reputation	I can describe how to find out information about others by searching online. I can explain ways that some of the information about anyone online could have been created, copied or shared by others.
4	Online bullying	 I can recognise when someone is upset, hurt or angry online. I can describe ways people can be bullied through a range of media (e.g. image, video, text, chat). I can explain why people need to think carefully about how content they post might affect others, their feelings and how it may affect how others feel about them (their reputation).
5	Health and wellbeing	I can explain how using technology can be a distraction from other things, in both a positive and negative way. I can identify times or situations when someone may need to limit the amount of time they use technology e.g. I can suggest strategies to help with limiting this time.
	Privacy and Security	 L can describe strategies for keeping personal information private, depending on context. L can explain that internet use is never fully private and is monitored, e.g. adult supervision. L can describe how some online services may seek consent to store information about me; I know how to respond appropriately and who I can ask if I am not sure. L know what the digital age of consent is and the impact this has on online services asking for consent.

Year 5: e-Safety unit

	Lesson Title	e-Safety success criteria [& Project Evolve resources]
1	Self image and identity	L can explain how identity online can be copied, modified or altered. L can demonstrate how to make responsible choices about having an online identity, depending on context.
2	Online bullying	 L can recognise online bullying can be different to bullying in the physical world and can describe some of those differences. L can describe how what one person perceives as playful joking and teasing (including 'banter') might be experienced by others as bullying. L can explain how anyone can get help if they are being bullied online and identify when to tell a trusted adult. L can identify a range of ways to report concerns and access support both in school and at home about online bullying. L can explain how to block abusive users. L can describe the helpline services which can help people experiencing bullying, and how to access them (e.g. Childline or The Mix).
33	Managing online information	 Lcan explain what is meant by 'being sceptical'; I can give examples of when and why it is important to be 'sceptical'. Lcan evaluate digital content and can explain how to make choices about what is trustworthy e.g. differentiating between adverts and search results Lcan explain key concepts including: information, reviews, fact, opinion, belief, validity, reliability and evidence Lcan identify ways the internet can draw us to information for different agendas, e.g. website notifications, pop-ups, targeted ads Lcan describe ways of identifying when online content has been commercially sponsored or boosted, (e.g. by commercial companies or by vloggers, content creators, influencers). Lcan explain what is meant by the term 'stereotype', how 'stereotypes' are amplified and reinforced online, and why accepting 'stereotypes' may influence how people think about others. Lcan describe how fake news may affect someone's emotions and behaviour, and explain why this may be harmful Lcan explain what is meant by a 'hoax'. I can explain why someone would need to think carefully before they share.
4	Health and wellbeing	 L can describe ways technology can affect health and well-being both positively (e.g. mindfulness apps) and negatively. L can describe some strategies, tips or advice to promote health and wellbeing with regards to technology. L recognise the benefits and risks of accessing information about health and well-being online and how we should balance this with talking to trusted adults and professionals. L can explain how and why some apps and games may request or take payment for additional content (e.g. in-app purchases, lootboxes) and explain the importance of seeking permission from a trusted adult before purchasing.
!	Privacy and security	L can explain what app permissions are and can give some examples.
	Copyright and ownership	L can assess and justify when it is acceptable to use the work of others I can give examples of content that is permitted to be reused and know how this content can be found online.

Year 6: e-Safety unit

	Lesson Title	e-Safety success criteria [& Project Evolve resources]
1	Self image and identity	 I can identify and critically evaluate online content relating to gender, race, religion, disability, culture and other groups, and explain why it is important to challenge and reject inappropriate representations online I can describe issues online that could make anyone feel sad, worried, uncomfortable or frightened. I know and can give examples of how to get help, both on and offline. I can explain the importance of asking until I get the help needed.
2	Online relationships	 L can explain how sharing something online may have an impact either positively or negatively L can describe how to be kind and show respect for others online including the importance of respecting boundaries regarding what is shared about them online and how to support them if others do not. L can describe how things shared privately online can have unintended consequences for others. e.g. screen-grabs. L can explain that taking or sharing inappropriate images of someone (e.g. embarrassing images), even if they say it is okay, may have an impact for the sharer and others; and who can help if someone is worried about this.
3	Online bullying	• I can describe how to capture bullying content as evidence (e.g screen-grab, URL, profile) to share with others who can help me. • I can explain how someone would report online bullying in different contexts.
4	Health and wellbeing	 I can describe common systems that regulate age-related content (e.g. PEGI, BBFC, parental warnings) and describe their purpose. I recognise and can discuss the pressures that technology can place on someone and how / when they could manage this. I can recognise features of persuasive design and how they are used to keep users engaged (current and future use). I can assess and action different strategies to limit the impact of technology on health (e.g. night-shift mode, regular breaks, correct posture, sleep, diet and exercise).
5	Privacy and security 1	 I can describe effective ways people can manage passwords (e.g. storing them securely or saving them in the browser). I can explain what to do if a password is shared, lost or stolen. I can describe how and why people should keep their software and apps up to date, e.g. auto updates.
6	Privacy and security 2	 L can describe simple ways to increase privacy on apps and services that provide privacy settings. L can describe ways in which some online content targets people to gain money or information illegally; I can describe strategies to help me identify such content (e.g. scams, phishing). L know that online services have terms and conditions that govern their use.