	KNOWLEDGE	SKILLS	OUTCOMES
	General ICT skills and Word	Will be able to turn the	ALL
Year 3 Computer science	General ICT skills and Word processing Know the parts of a computer Know how to switch the computer on and off know how to Log on and off (sign in sign out) Know what the desktop is Know the buttons on the mouse Know some of the icons on the desktop and how to use the mouse to open them Know where the letters and numbers are on the keyboard Know I can type with multiple fingers on both hands Know the function of some additional keys (space, enter, shift, caps lock, backspace) Know what a word processor is Know how to change from lower case to capital letters Know how to change the font Know how to underline text Know how to underline text Know how to use bullet points Know how to make the text bold or italic Know how to save work Know how to retrieve their work from last week Know how to search for an image online Know how to copy an image	Will be able to turn the computer on Will be able to log in and sign out Will be able to use a mouse with increasing accuracy Will be able to type with increasing speed and accuracy Will be able to use the shift, caps lock and change case buttons to change the case of letters and words. Will be able to highlight text using bold, italic and underline buttons. Will be able to move text using the align left, right and centre buttons. Will be able to insert an image Will be able to save a document Will know how to print a document	ALL Can turn on a computer. Can log on to the school network with support. Can follow clear instructions to find programs on the desktop. Can type using both hands with some accuracy Can change some features and effects on a word processing program Can copy and paste an image into word with support. Can save their work Can print their work MOST Knows the difference between shutting down and turning off the computer Can log on to the school network independently. Can independently open programs used in lessons. Can type using both hands with increasing speed and accuracy Can change a range of different effects in a word processing program Can copy and paste an image into word and begin to format it Can print a document using the default settings. Can save and reopen their work SOME Can explain the difference between shutting down and turning off the computer and demonstrate both. Can log on to the school network independently and can explain to others what they need to do. Can find specific programs by searching the desktop independently. Can print a document in colour or black and white. Can insert an image into word using copy and paste of the 'insert' button and can format the size and position of the image. Can save, rename and reopen their work
Year 3 Computer science	Know how to paste an image E-safety/ RHE I know why people use the internet as part of their lives I know the benefits of using the internet I know that the internet can be a negative place and it can impact our mental health I know ways of communicating online	Identify cyberbullying Identify suspicious signs in an email Writing and sending emails Communicate safely and responsibly online	ALL Know one good and bad thing about using the internet Know how the internet can negatively effect our wellbeing Know that we use email and instant messages to communicate online Know how some people can be unkind on the internet Know how to be kind communicating on the internet. know to a safe person to tell if they encounter hurtful comments on messages online; Know what personal information is and what to keep private; Know how to create a strong password; Know what privacy settings are;

(email, blog, instant messaging and video calling) I know some positive and negative aspects of online communication

I know how to communicate respectfully online

I know how online actions can impact other people and their feelings.

I know how to respond to a hurtful message or comment online.

I know where and how to address any concerns I have online

I know the importance of keeping personal

information private
I know what personal
information is
I know what a password is
and why it is important
I know how to create a
strong password.
I know what privacy settings

are and why they are

important.

MOST

Know the positive and negative aspects of using the internet Know how the internet can negatively effect our wellbeing identify and explain different forms of online communication; Know some of the benefits and disadvantages of communication online;

explain the differences between communication in real life and online;

Know how some people can be unkind on the internet Know how to be kind communicating on the internet; know to a safe person to tell if they encounter hurtful comments on messages online;

Know what personal information is and what to keep private; They can explain why you need keep personal information private; Know how to create a strong password, explaining why it is important;

Know what privacy settings are and how to use them safely;

SOME

Know the positive and negative aspects of using the internet Know how the internet can negatively effect our mental wellbeing; identify and explain different forms of online communication; Know some of the benefits and disadvantages of communication online;

explain the differences between communication in real life and online;

Know how some people can be unkind on the internet and the affect it has;

Know how to be kind communicating on the internet; give examples of people they can report hurtful comments on messages to and explain why they are good choices; Know what personal information is and what to keep private; They can explain why you need keep personal information private; Know how to create a strong password, explaining why it is important and giving tips to help others create a strong password; Know what privacy settings, why they are important and how they can be used safely;

Programming – Scratch (dressing up)

I know who Ada Lovelace is I know what an algorithm is

I know what a sprite is
I know what coding is
I know how to choose a
sprite, duplicate its costume
and change the colour of its
items of clothing.

I know what a block of code

I can make a block of code I can copy a block of code I know what the term bug means in computing

I know how to use the selection tool to code changes

I know how to design, edit and code my sprite I know what import means I can choose a sprite and alter its appearance
I can use code to make something change
I can import different backgrounds
I can use code to change

the backgrounds

ALL

Can select a sprite

Can modify a sprite's appearance with support.

Can choose a background

Can write a simple algorithm using a pre-selected blocks. Can code a sprite to react to a mouse click.

Can use code to change a sprites colour

Can use code to change a sprites costume

MOST

Can modify a sprite's appearance independently.

Can draw their own accessories onto a sprite

Can add additional accessories for a sprite

Can import a background

Can write a simple algorithm using a pre-prepared plan.

Can code a sprite to react to a mouse click.

Can duplicate code

Can use repeat loops in algorithms.

Can begin to recognise errors in code (bugs)

SOME

Can modify a sprite's appearance and create new sprites independently.

Can write a simple algorithm.

rear 3 Programming

	Live out hour to import	T	Can gade a sprite to react to a mayor click or a keystrake Creating
	I know how to import		Can code a sprite to react to a mouse click or a keystroke Creating
	backgrounds		a sequence of instructions that follow each other contained in one
	I know how to code to		block
	change the background		Can duplicate blocks from code provided and can explain in their
	I know what a pause does in		own words what it does.
	a sequence		Can import a background.
	I know how to code a pause		Can recognise bugs in code and begin to fix them.
	into a sequence		Can explain the function of repeat loops in algorithms.
	I know how to create and		
	debug a simple program		
	Programming- scratch	Be able to write an	ALL
	(conversation)	algorithm with a wait	Write a simple algorithm
		=	· -
	Know what an algorithm is	code	Turn that algorithm into code
	Know what a wait block is	Be able to code two	Program a wait block into the code
	Know how to write an	sprites to have a	Code a sprite to speak
	algorithm with a wait block	conversation	Identify if a code doesn't work
	I know how to turn an	Be able to change the	MOST
	algorithm into code	position and appearance	Write an algorithm with a wait block
	I know what d-bugging	of a sprite	Turn the algorithm into a code
	means		Understand the purpose of the wait block in a conversation
8	I know if my code has a bug		Program two sprites to speak at different times
3 mir	I know how to debug my		Change the background
Year 3 gramm	code		Edit the appearance of the sprite
Year 3 Programming			
P.	I know how to change the		Identify errors in code
	background		Begin to correct errors in code
	I know how to move the		SOME
	sprites		Create and extended algorithm with a wait block and explain the
	I know how to edit the		purpose of the wait block
	appearance of a sprite		Turn the algorithm into code
	I know how to make the		Program two or more spites to have a conversation
	spite disappear		Program the sprites to wait and speak in turn
	I know how to make the		Import different backgrounds
	sprite change size		Edit and enhance the appearance and movement of the sprites
			Identify errors in code and de-bug them efficiently
	Using the internet	Can search safely and	ALL
	I know I can search for	effectively for	Can use a search engine to find basic information.
	information on the internet	'	
		information	Can bookmark a page with support.
	I know how to search for	Can bookmark a page of	Can search for an image with support.
	information on the internet	interest to use at a later	Can use some information they have found in a fact file.
	I know how the internet	date	MOST
	ranks information I search	Can find relevant results	Can explain what a search engine is used for.
	I know what it means to	for their question	Can bookmark a page independently.
>	search safely	Can use the results they	Can search for an image and use copy and paste to retrieve it.
log	I know what web browsers	find in an information	Can use information they have researched to create a fact file.
Juc	are safe to use	page	SOME
Year 3 Information Technology	I know how to search safely	Can make their	Can explain what a search engine is used for and how to effectively
Year 3 ion Tec	I know how to use key words	information page	search using keywords.
۲ atic	to search for information	attractive and clear	Can create bookmarks and organise them into folders.
l m	I know why I can bookmark a	and diedi	Can search for an image and use more than one method to
Infc	web page		<u>-</u>
			retrieve it from a webpage (scrnprt or snipping tool).
	I know how to bookmark a		Can use information they have researched in their own words to
	web page		create an attractive fact file.
	I know how to create a		
	bookmarks folder		
	I know how to research a		
	question of my own		
	I know how to find a website		
	that answers my question		
L		I	

	1		
	I know how to use		
	information I have found in		
	my own work		
	I know what to do if I come		
	across a nasty image		
	I know how to copy an image		
	from the internet		
	I know how to add a caption		
	to an image		
	I know how to make my		
	factsheet attractive and clear		
	Basic ICT skills	Will be able to use a	ALL
	Know the parts of a	mouse with increasing	Can log on to the school network with support.
	computer	accuracy	Can follow clear instructions to find programs on the desktop.
	Know how to switch the	Will be able to type with	Can type using both hands with some accuracy
	computer on and off	increasing speed and	Can change some features and effects in PowerPoint
	know how to Log on and off	accuracy	Can copy and paste an image into PP with support.
	_	Will be able to use the	Can save their work
	(sign in sign out)		
	Know what the desktop is	shift, caps lock and	MOST
	Know the buttons on the	change case buttons to	Knows the difference between shutting down and turning off the
	mouse	change the case of	computer
	Know some of the icons on	letters and words.	Can log on to the school network independently.
	the desktop and how to use	Will be able to highlight	Can independently open programs used in lessons.
	the mouse to open them	text using bold, italic and	Can type using both hands with increasing speed and accuracy
	Know where the letters and	underline buttons.	Can change a range of different effects in PowerPoint
	numbers are on the	Will be able to move text	Can copy and paste an image into PP and begin to format it
	keyboard	using the align left, right	Can save and reopen their work
	Know I can type with	and centre buttons.	SOME
ce	multiple fingers on both	Will be able to insert an	Can log on to the school network independently and can explain to
Year 4 uter science	hands	image	others what they need to do.
Year 4 uter sc	Know the function of some	Will be able to save a	Can find specific programs by searching the desktop
Yea	additional keys (space, enter,	document	independently.
Сотр	shift, caps lock, backspace)	Will be able to choose a	Can insert an image into word using copy and paste of the 'insert'
ပ	Know how to save work	preferred layout on pp	button and can format the size and position of the image.
			·
	Know how to retrieve their	Will be able to insert and	Can save, rename and reopen their work
	work from last week	edit text and images on	Can insert a range of animations and transitions to their
	Know how to search for an	PP	presentation
	image online	Will be able to create an	
	Know how to copy an image	interesting slide show	
	Know how to paste an image	with transitions and	
	know how to choose a layout	animations	
	on PP		
	know how to change and		
	insert text on PP		
	Know how to insert and edit		
	photos on PP		
	Know how to add animations		
	on PP		
	Know how to add transitions		
	on PP		
	OILL		

Computer science

E SAFETY/ RHE

I know how to recognise cyberbullying. I know who to tell if I encounter cyberbullying.

I know how the impact cyber bullying can have on our I know what a bystander is and what to do to support bullied

I know what a search engine

I know how an online search works.

I know how to search for specific information effectively and safely online I know that not everything online is trustworthy I know what how to identify whether information online is reliable

I know how to keep myself safe online.

I know how to keep myself emotionally safe online. I know where and how to

report concerns and get support with issues online

mental health and well being someone who is being cyberIdentify and respond safely to cyber-bullying Know how to use search engines effectively and safely

ALL

Know what cyber bullying

where to report concerns to.

Know to tell an adult if they are being cyberbullied Know what a bystander is

Know that cyber-bullying can make someone upset, angry, sad, scared

Know that a search engine helps us find information on the internet and can name an example of one.

Choose an appropriate number of words for a search term. Knows that not everything you see online is reliable Know how to keep themselves safe on line including who and

MOST

Know what cyber bullying is and the signs of it Know what to do when someone is being cyberbullied including the role of a bystander

Know some of the effects cyber-bullying can have on your mental health

Understand what a search engine is and that search results are ranked.

Choose an appropriate number of words for a search term. Knows that not everything you see online is reliable and know some strategies for spotting what is fake and real.

Know how to keep themselves safe on line including who and where to report concerns to.

SOME

Know what cyber bullying is and can explain examples of it Know what to do when someone is being cyberbullied including the role of a bystander

Can explain the effects cyber-bullying can have on your mental health

Understand what a search engine is and that search results are ranked.

Knows what tracking is.

Choose an appropriate number of words for a search term. Knows that not everything you see online is reliable and can explain strategies for spotting what is fake and real. Know how to keep themselves safe on line including who and

where to report concerns to.

Programming - Scratch **Music Machine**

Know what programming and coding is.

Know and understand what an algorithm is.

Know how to debug a simple program.

know what a coding sequence and repetition are know what input and output mean

Know how to create a simple

Know how to code a mouse click as an input.

I know how to code a button to play sounds I know how to code a

Pupils create simple buttons which play different sounds when they are clicked with the left mouse button. Sounds are created using sequences of notes, repeat loops and imported sounds.

ALL

Create programs that still contain bugs, not be confident describing sequences of code, use mostly strings of individual blocks and need to use support materials.

MOST

Create a program with buttons that play sequences of notes or imported sounds. Sequences will use strings of individual blocks, repeat loops and may include instrument, volume and tempo blocks. They should also be able to describe the order blocks in a sequence will be played and debug their own code.

SOME

Create a program that may also include a flashing background, volume/tempo controls or a button to stop it playing. Sequences will use strings of individual blocks; repeat loops; instrument, volume and tempo blocks and may show creative use of imported sounds. They should also be able to confidently describe the order blocks in a sequence will be played and debug their own code independently.

Programming

sequence of notes I know how to code a sequence of drums I know how to code multiple sequences alongside each other I Know how to code a repeat loop command. I know how to use a set tempo to block in my code I know how to change the type of note using the instrument block I Know how to use a set volume to block on one instrument I know how to create a sequence that includes an imported sound I know how to create a sequence that uses a play sound and a play sound until block I know who Alan Turing is and his importance in computing. Programming - Scratch To be able to code a ALL **Smoking car** Know some new vocabulary. Create a program where the sprite is sprite to move in different directions directed around the screen using the keyboard with some bugs. I know what decomposition To be able to create a They will have created a background with support and may have I know new logical language background and make it included some code for the pen tool. I know how to use logical **MOST** move To be able to use code to Know some vocabulary and begin to use it when discussing their language. work. Create a program where a sprite is directed around the I know how to code a sprite draw an image screen using keyboard inputs. They will have created more than to change direction using the To be able to erase their one background that you can rotate using a keyboard input. They arrow keys. drawing with code To be able to make a will also have code that allows the turning on, off and clearing of I know how to code a sprite to move using a keyboard sprite disappear and the pen tool. They may or may not include a title screen. Programming **SOME** key. reappear I know how to draw a simple Know new vocabulary and use it with confidence when discussing and explaining their work. Create a program that will also include a background. I know how to make the title screen with clear instructions for the game that appears when backgrounds rotate using a the game is run and the disappears after a few seconds. They may have multiple backgrounds of their own design. keyboard press. I know how to code the pen to go up and down with keyboard presses. I know how to code a key to clear all pen drawings. I know how to make a title page using a sprite I know how to make a sprite appear and disappear from view.

rear 4 Information technology

Using the internetnetworks

I know what a network is I know that information moves around the school network via the internet and cables

I know what the internet is I know what happens when I make a search on the internet

I know who Tim Berners-Lee is and his contribution to the development of the internet I know how information is passed across the internet I know what a digital footprint is.

know how to choose a layout on PP

know how to change and insert text on PP

Know how to insert and edit photos on PP

Know how to add animations on PP

Know how to add transitions on PP

Know how to use the internet safely to research Know how to use information in a presentation

Will be able to use a mouse with increasing accuracy

Will be able to type with increasing speed and accuracy

Will be able to use the shift, caps lock and change case buttons to change the case of

letters and words.

Will be able to highlight text using bold, italic and underline buttons.

Will be able to move text using the align left, right and centre buttons.

Will be able to insert an image

Will be able to save a document

Will be able to choose a preferred layout on pp Will be able to insert and edit text and images on PP

Will be able to create an interesting slide show with transitions and animations
Will be able to research efficiently
Will be able to present their work

ΔΠ

Have simplistic understanding of the connections in the school network. Understand that the internet is a web of computers that are connected by wires across the world. Know that we leave a digital footprint from the things we search.

Can type using both hands with some accuracy
Can change some features and effects in PowerPoint
Can copy and paste an image into PP with support.
Can save their work

Can use the internet to research with support.

MOST

Be able to explain the role of a server, switch and router in a computer network. Know that data is split into packets that can take different routes. Understand that we can leave a digital footprint online that others can trace.

Can type using both hands with increasing speed and accuracy
Can change a range of different effects in PowerPoint
Can copy and paste an image into PP and begin to format it
Can save and reopen their work
Can present their information
Can use the internet to research

SOME

They will be able to explain the role of different parts of a computer network. Be able to explain how data might move through a network when users perform actions like logging on, opening and printing a document. Explain a number of ways we leave a digital footprint online and how others can trace it. Can insert an image into word using copy and paste of the 'insert' button and can format the size and position of the image. Can save, rename and reopen their work

Can insert a range of animations and transitions to their presentation

Can present their work with confidence
Can use the internet efficiently to research information

Basic ICT skills

Computer science

Year 5Year 5

Know the parts of a computer

Know how to switch the

computer on and off know how to Log on and off (sign in sign out) Know what the desktop is Know the buttons on the mouse

Know some of the icons on the desktop and how to use the mouse to open them Know where the letters and numbers are on the keyboard

Know I can type with multiple fingers on both hands

Know the function of some additional keys (space, enter,

Will be able to use a mouse with increasing accuracy Will be able to type with

increasing speed and accuracy Will be able to use the

shift, caps lock and change case buttons to change the case of

letters and words.
Will be able to highlight text using bold, italic and underline buttons.

Will be able to move text using the align left, right and centre buttons.

and centre buttons.
Will be able to insert an image

Will be able to save a document

ALL

Can log on to the school network.

Can follow clear instructions to find programs on the desktop.

Can type using both hands with some accuracy

Can change some features and effects in PowerPoint Can copy and paste an image into PP with support.

Can save and reopen their work

MOST

Knows the difference between shutting down and turning off the computer

Can independently open programs used in lessons.

Can type using both hands with increasing speed and accuracy Can change a range of different effects in PowerPoint Can copy and paste an image into PP and begin to format it Can save and reopen their work

SOME

Can explain when and why we shut down/sign out of the computers

Can find specific programs by searching the desktop independently.

shift, caps lock, backspace) Know how to save work Know how to retrieve their work from last week Know how to search for an image online Know how to copy an image Know how to paste an image know how to choose a layout on PP know how to change and insert text on PP Know how to insert and edit photos on PP Know how to add animations on PP Know how to add transitions on PP

Will be able to choose a preferred layout on pp Will be able to insert and edit text and images on PP
Will be able to create an

Will be able to create an interesting slide show with transitions and animations

Can insert an image into PP using copy and paste of the 'insert' button and can format the size and position of the image.
Can save, rename and reopen their work
Can insert a range of animations and transitions to their presentation

Can deliver a well organised and presented PP

E-Safety/ RHE

I know the risks of spending too much time online on my physical and mental wellbeing.

I know how to ration the time I spend online to improve my physical and mental health. I know what email is and what it is used for.

I know the signs of a suspicious email.

I know what a SPAM email is and its dangers

I know how to identify spam emails and what to do with them

I know how to write and send an email

I know what information is safe to share on line. I know what personal information should be kept private.

I know how to identify a safe website

I know how to look for changes that have been made to an original photograph.

I know that not everything I see online is true.
I know how false

photographs can make people feel bad about themselves.

I know how to recognise how images in the media (and

Identifying suspicious emails.

Sending safe emails Identifying safe websites Identifying manipulated photos.

ALL

Know a risk of spending too much time online on their physical and mental wellbeing

Know that it is importance to limit the time we spend online Know what email is

Know some signs of a spam email.

Know what to do with a spam email.

Know not everything the see online is true.

Know that photographs can be altered

Know online images and advertising can make us feel sad about ourselves

MOST

Know some risks of spending too much time online on their physical and mental wellbeing

Know some ways they can ration the time they spend online Know what email is and how it is used.

Can identify suspicious and SPAM and explain some dangers of spam email.

Know what information can be shared online and what information to keep private

Know 3 ways to identify a safe website.

Understand that not everything we see online is true

Explain how photographs can be altered and why they might have been altered

Know online images and advertising can negatively impact our mental wellbeing

SOME

Know a range of risks of spending too much time online on their physical and mental wellbeing

Know a range of ways they can ration the time they spend online Can explain the benefits of using email and why people use email. Identify SPAM and explain the dangers of spam email.

Explain some steps to take to avoid receiving spam email and what to do if you do receive SPAM

Can explain the importance of keeping personal information private

Know ways to identify a safe website and how to recognise fake ones.

Understand that not everything we see online is true

Year 5 Computer science

	anlina) do not always raflact		Evaluin how photos can be altered and who we might do this
	online) do not always reflect		Explain how photos can be altered and why we might do this
	reality		Know online images and advertising can negatively impact our
	I know how to recognise how		mental wellbeing
	images in the media can		
	affect how people feel about		
	themselves		
	I know who to where and		
	how to get support with		
	online issues.		
	Programming scratch	Children can draw a	ALL
	Crab Maze	maze	Draw their own maze
	I know who Grace Hopper is	Children can create a	Can code the sprite across the screen.
	I know what the term	program to steer a crab	Can use a repeat loop
	'decompose' means	around a maze using	Create a simple program that may still have bugs.
	I know how to decompose a	keys on the keyboard.	Can begin to verbalise some understanding of the coordinates
	computer program	Children can code when	MOST
	I know what a forever loop	the crab touches the	Create their own maze
	does	walls of the maze the	Can code their sprite to move efficiently around the maze
	I know how to use a forever	game ends.	can use different code and algorithms
	loop to make my crab look	Children can use	can create a simple program and begin to debug errors
	like it is opening and closing		understands the use of coordinates and programs a sprite to
		coordinates to program	
	its claws	their sprite to move to a	spawn to a specific point
	I know what conditional	certain point when the	SOME
	selection means	game ends.	Can draw different levels of mazes
	I know how to make my crab	Children can add	con confidently use a range of code commands and algorithms
	move when the game starts	scoring coins using a	can program the game to end if the sprite touches a wall then use
	I know how to make my crab	variable to hold the	coordinates to respawn the sprite in a desired location
	steer when I press a key on	score.	Can include coins and scoring to their program.
Year 5 gramming	the keyboard		May also create a plan for a similar game of the own design.
Year 5 gramm	I know how to design a maze		Can debug errors in their code
Yea	with a start and finish		
Pro	I know how to make mazes		
	where all the walls are the		
	same colour		
	I know what a spawn point is		
	I know how to make the		
	game stop when the crab		
	touches the maze wall		
	I know how to use		
	coordinates to make a		
	spawn point so the crab		
	· · ·		
	starts at the starting point I know how to make the		
	game change level when the		
	crab touches the finish		
	colour		
	I know how to make a coin		
	that can be picked up by the		
	crab increasing the score		
	I know how I might make a		
	game like this myself		
	We are artists	use a computer to create	ALL
<u>ള</u>	I know what a tessellation is	artistic designs.	Be able to efficiently use a vector-based drawing program to
5 min	I know how to draw simple	use built in features to	create a simple tessellation.
Year 5 gramm	shapes using word	enhance compositions.	Be able to copy code into scratch to create repeating shape
Year 5 Programming	I know how to duplicate		patterns.
P	shapes in Inkscape or word		Be able to create a tessellation in the style of Bridget Riley.
			MOST
	1	<u> </u>	

	I know how to create lines in		Be able to efficiently use a vector-based drawing program to
	a computer aided		create a simple tessellation.
	programme (Inkscape)		Be able to efficiently use a vector-based drawing program to
	I know how to create a		create a more complex tessellation.
	complex shape which will		Be able to use scratch to create patterns out of repeating shapes.
	tesselate		Be able to create a tessellation in the style of Bridget Riley.
	I know who Bridget Riley is		SOME
	I know to apply filters to my		Be able to efficiently use a vector-based drawing program to
	artwork		create a simple tessellation.
			Be able to efficiently use a vector-based drawing program to
			create a more complex tessellation.
			Be able to use scratch to create patterns with dynamic variables
			(size, colour, shade) out of repeating shapes.
			Be able to create an aesthetically pleasing tessellation in the style
			of Bridget Riley.
	We are Photographers	To be able to recognise	ALL
	E-SAFETY RECAP: I know how	features of a quality	Be able to take a photograph
	to look for changes that have	photo	Upload some photos to the computer
	been made to an original	To be able to take a	begin to explore ways to edit a photograph on a computer
	photograph.	digital photo.	program
	I know a famous	To be able to upload a	sort their photos into a simple presentation to show to others
	photographer	digital photo.	MOST
	I know the features of a	To be able to edit a	Take a good photo on a camera
	good photograph	digital photo.	Upload multiple photos to a computer file
	I know key vocabulary linked	To be able to present a	use imaging editing software to enhance their photos
	to photography (focus,	collection of digital	use a range of filters and effects to produce more effective images
	angle, zoom, crop)	photos.	present their work in a slide show with some transitions to gain
	I know how to use a digital		the viewers interest
r 5 technology	camera		SOME
our	I know how to upload		Take steady photographs
r 5 tec	photographs to a computer		upload photos to a computer file
Year Information t	I know how to apply an		use imaging editing software to enhance their photos select
mat	effect to a photograph		specific filters and effects to produce more effective images
fori	I know how to crop a		explain how particular effects have been achieved in their work or
=	photograph		might have been achieved in the works of others.
	I know what a photo collage		present their work in a slideshow with a range of transitions to
	is		maintain the viewers interest
	I know how to insert		
	photographs into a		
	document		
	I know how to add borders		
	to frame photographs		
	I know what powerpoint is		
	I know how to add images to a powerpoint presentation		
	I know how to include		
	different transitions		
	and the transitions		
	General ICT skills	enter data into cells	ALL
	Know how to use a	enter data and formulae	Can enter data and formulae into a spreadsheet with guidance
Ce	spreadsheet to record data	into cells, modify the	Can use 'SUM' function with guidance
ien	Know how to use a formula	data, make predictions	Can create a spreadsheet
Year 6	to add two cells	of changes and check	MOST
Yea	Know how to use a formula	results	Can enter data into a spreadsheet
Year 6 Computer science	to multiply two cells	use 'SUM' function	Can enter data and formulae into cells, modify the data, make
ت	Know how to use a formula	create and use a	predictions of changes and check results
	to add up multiple numbers	spreadsheet to produce	Can use 'SUM' function
1	Know how to use a drag		

	selection to auto complete a	costings which are	Can create a spreadsheet to produce costings which are within
	column	within budget	budget
	Know how to make a column		SOME
	chart to show profit Know how to make my		Confidently and independently enter data into a spreadsheet
	spreadsheets look clear and		Can independently enter data and formulae into cells, modify the data, make predictions of changes and check results
	attractive		Can use 'SUM' function and explain clearly what it does
	attractive		Can create an appealing spreadsheet to produce costings which
			are within budget
	E-Safety/ RHE	Identifying warning signs	ALL
	I know why someone might	when communicating	Know one positive and one negative of having an online
	have an online friendship.	with another person	relationship.
	I know what personal	online.	Identify personal information.
	information is and why it	Identifying and reacting	Explain some dangers of revealing personal information to an
	should be kept private.	to cyberbullying.	online friend.
	I know some of the dangers	I can recognise	Say what bullying and cyberbullying are. Understand why they should ask an adult if they are worried about
	of revealing personal information to an online	stereotypes and the negative impact this can	cyber bullying.
	friend.	have	Understand what a stereotype is.
	I know how to keep myself	Know how to cite	Know what age restrictions are and how they keep us safe
	safe when communicating	websites used	Know what plagiarism is.
	with an online friend.		MOST
	I know what bullying and		Know the positives and negatives of having an online friendship
	cyberbullying are.		Understand why certain information should be kept private
	I know how the impact cyber		Identify cyber bullying and offer an effective suggestion of what to
	bullying can have on our		do
Se Se	mental health and physical		Identify a gender stereotype and discus the impact this can have
Year 6 Computer science	well being		on someone
Year 6 uter sc	I know ways in which people		Know why computer games and social media have age restrictions
Ye	could address cyberbullying.		and how they keep us safe
, mo	I know what a stereotype is		Know the importance of using citations and what plagiarism is.
	I know how a stereotype can		SOME
	be unfair, negative or destructive.		Explain why people have online relationships and how they can be
	I know how to identify a		negative. Reason why certain information should be kept private
	gender stereotype in an		Explain what certain information is safe to be public
	online media message.		Explain the equivalence between online and in person bullying.
	I know what an age		Offer good advice to someone who may be experiencing
	restriction		cyberbullying
	I know age restrictions for		Identify gender stereotyping in a media message.
	some computer games and		Understand and explain the impact stereotyping can have on
	social media sites.		mental health
	I know why age restrictions		Know why computer games and social media have age restrictions
	are used to keep children		and how they keep us safe
	safe.		Know the importance of using citations and what plagiarism is.
	I know what a citation is		
	I know why it is important to		
	cite a source. I know how to cite a website.		
	Scratch Maths quiz	To include a welcoming	ALL
	know what programming and	block of code to a game	Create a quiz program that contains some bugs
50	coding is.	To program questions	use code to ask and answer simple questions
Year 6 Programming	Know and understand what	and answers	Can duplicate blocks of code
Year 6 gramm	an algorithm is.	To programme different	Can add some sounds and change the background
Y	Know how to create a simple	responses to background	Will recognise an image of Steve Jobs
	program.	and sound to correct or	MOST
		incorrect answers	Program a maths quiz that asks multiple maths questions and

responds with the sprite saying "correct" or "wrong" using if-else

I know how to include a start block and a welcoming block of code

I know how to ask and answer questions in code I know how to code maths questions

Know how to code key press as an input.

Know how to use conditional selection (if commands).

know how to use and if-else selection block to make my sprite say correct or wrong I know how to duplicate blocks of code efficiently

I know how I can test my code after making every question and fix (debug) any errors.

Know what a variable is

To programme a point scoring system

selection blocks. They will be able to duplicate blocks of code and use a variable to keep score. They may use a broadcast block to code the background to change after a correct answer. Know why Steve Jobs is an important figure

SOME

Create a program which may also take away points for incorrect answers, make a sound for correct answers, change the background if answer is wrong. They may go on to apply what they have learnt to begin making a new quiz of their own. Discuss who Steve Jobs is and explain how his contributions have

developed computing and technology

I know how to create a variable called score and use it to collect the score throughout the quiz I know how to change the background when the user gets the question correct I know how to take away a point if the user gets the question wrong I know how to add sounds if user gets question right or wrong Know who Bill Gates is and

ALL

A simple animation that moves an object, might include unwanted hands in the clip/jerky movements.

MOST

Create a stop-frame animation that gets characters to move in small increments. It will have simple scenery and may have background music or spoken audio.

SOME

A complex animation that relates a clear narrative. It could have good scenery, a good focus, can also include removal or adding tricks (Where things are taken away or added to create an effect, for eg sinking of Titanic by cutting layers of the ship off) May have titles. May also have sound edited using audacity.

Using technology -**Animation**

computing

why he is important in

To know what a stop-motion animation is.

To know that stop-motion animation is made using a series of individual frames or pictures.

To know how to storyboard an animation.

To know how to create a backdrop/ scenery for an animation.

To know how to use a digital camera.

To know how to move a model in a stop motion animation.

To know how to upload photos to a computer.

To be able to create a stop-motion animation using a 'stick-man' animation program.

To be able to write a storyboard.

To be able to make a backdrop/ scenery.

To be able to use a digital camera.

To be able to use a stopmotion animation program that uses pictures.

To be able to use moviemaker to combine a video and audio track and export a single file.

Programming

video and audio clips. Using technology - Excel		
	l Do oblo to orooto o	ALL
	Be able to create a	· · · · ·
Know how to use a	clearly presented spread	Can use autocomplete to repeat a single value data with support.
spreadsheet to record data	sheet	Can copy a simple formula into a spreadsheet.
	·	Can create a graph from spreadsheet data with support.
to add two cells	into graphs	Can change the colour of some cells in a spreadsheet.
Know how to use a formula	Be able to use formulas	Can verbalise what their spread sheet shows
to multiply two cells	to add and multiply	MOST
Know how to use a formula	numbers in cells	Can use autocomplete to repeat a single value data and
to add up multiple numbers	Be able to verbalise what	incrementally increasing data with support.
Know how to make a pie	their spread sheet	Can create a simple formula to calculate within a spreadsheet with
chart	represents	support.
Know how to make a pie		Can create a variety of graph from spreadsheet data with support.
chart to show costs		Can change the colour of cells in a spreadsheet to make the data
Know how to use a drag		easier to read.
selection to auto complete a		Can explain what the data on the spread sheet represents
column		SOME
Know how to make a column		Can use autocomplete to repeat a single value data and
chart to show profit		incrementally increasing data independently.
Know how to use a formula		Can create a simple formula to calculate within a spreadsheet
to calculate percentages		independently.
•		Can create a variety of graphs from spreadsheet data
•		independently.
attractive		Can change the colour of some cells in a spreadsheet to make the
		data easier to read and aesthetically pleasing.
		Can explain in detail what their spread sheet represents and use it
		to inform others of profits made.
	Know how to use a formula to add two cells Know how to use a formula to multiply two cells Know how to use a formula to add up multiple numbers Know how to make a pie chart Know how to make a pie chart to show costs Know how to use a drag selection to auto complete a column Know how to make a column chart to show profit Know how to use a formula to calculate percentages Know how to make my spreadsheets look clear and	Know how to use a formula to add two cells Know how to use a formula to multiply two cells Know how to use a formula to add up multiple numbers Know how to make a pie chart Know how to make a pie chart to show costs Know how to use a drag selection to auto complete a column Know how to make a column chart to show profit Know how to use a formula to calculate percentages Know how to make my spreadsheets look clear and