

Computing Long Term Plan

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1		Summer 2	Additional Lessons		
EYFS	In the revised EYFS curriculum, the 'Technology' strand in Understanding the World has been removed and not replaced with any new guidance for schools. As technology has become an important part of our daily lives, we have kept it in our Early Years curriculum as it runs across all 7 areas. Computing develops listening and thinking skills, questioning and problem solving. Children use the Characteristics of Effective Learning: Playing and Exploring, Active Learning and Creating and Thinking Critically.									
	What does this look like in Early Years? By the end of Reception, I can • A range of technology and resources in both the indoor and outdoor classrooms, including the role play area, that children can access with an adult and independently. • Say how to stay safe online, in personal information. • Children will have the opportunity to use the following technology: • Complete a simple program. • IWB, Ipads, Cameras, Beebots and remote-controlled toys • Use a programmable toy. • Smartie the Penguin – Childnet • Staying Safe Online – CBBC • Key Themes: What is the internet? What is it for? Stranger Danger, using age-appropriate resources and seeking help if worried/unsure. • Talk about technology that is the internet? Taking photographs, research on Google, interactive games and e-learning.							n on the internet. r a particular		
Year 1	Computing Systems & Networks: Technology around us (6 lessons)	Creating Media: Digital painting (6 lessons)	Programming A: Moving a robot (6 lessons)	Data & Information: Grouping data (6 lessons)	Creating Media: Digit writing (6 lessons)	al	Programming B: Programming animations (6 Lessons)	Online Safety (5 lessons)		
	 Pupils will develop their understanding of technology and how it can help them in their everyday lives. They will start to become familiar with the different components of a computer by developing their keyboard and mouse skills. Pupils will also consider how to use technology responsibly. To identify technology To identify a computer and its main parts To use a mouse in different ways To use a keyboard to type on a computer 	Pupils will develop their understanding of a range of tools used for digital painting. They then use these tools to create their own digital paintings, while gaining inspiration from a range of artists' work. The unit concludes with pupils considering their preferences when painting with and without the use of digital devices.	Pupils will be introduced to early programming concepts. They will explore using individual commands, both with other learners and as part of a computer program. They will identify what each command for the floor robot does and use that knowledge to start predicting the outcome of programs. The unit is paced to ensure time is spent on all aspects of programming and builds knowledge in a structured manner. Pupils are also introduced to the early stages of program design through the introduction of algorithms.	 Pupils are introduced to data and information. Labelling, grouping, and searching are important aspects. Searching is a common operation in many applications, and requires an understanding that to search data, it must have labels. Pupils will assign data (images) with different labels in order to demonstrate how computers are able to group and present data. 1. To label objects 2. To count and group objects 3. To describe objects in different ways 	Pupils will develop the understanding of the various aspects of usi computer to create as manipulate text. They become more familia using the keyboard ar mouse to enter and d text. Pupils will also consider how to chan look of their text and be able to justify their reasoning in making t changes. Finally, pup consider the difference between using a com to create text, and wr on paper. They will b to explain which meth they prefer and why.	ing a ind y will ar with nd delete onge the will ir these oils will ces oputer riting pe able hod	Pupils will be introduced to on-screen programming through ScratchJr. They will explore the way a project looks by investigating sprites and backgrounds. They will use programming blocks to use, modify, and create programs. Pupils will also be introduced to the early stages of program design through the introduction of algorithms. 1. To find and use a command to move a Sprite	 To know that the internet is many devices connected to one another To know that you should tell a trusted adult if you feel unsafe or worried online To know that people you do not know on the internet (online) are strangers and are not always who they say they are To know that to stay safe online it 		

	 To use a keyboard to edit text To create rules for using technology responsibly 	 picture in the style of an artist 4. To explain why I chose the tools I used 5. To use a computer to paint a picture independently 6. To compare painting a picture on a computer to painting on paper 	 To explain what a given command will do To act out a given word To combine 'forwards and backwards' commands to make a sequence To combine four direction commands to make sequences To plan a simple program To find more than one solution to a problem 	 To count objects with the same properties To compare groups of objects To answer questions about groups of objects 	 To open a word processor and find keys on a keyboard 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 computer t writing on paper 	 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 a project and create an algorithm for each sprite To use my algorithm to create a program 	keep personal information safe 5. To know that 'sharing' online means giving something specific to someone else via the internet and 'posting' online means placing information on the internet
Year 2	Computing Systems & Networks: Information technology around us (6	Creating Media: Digital Photography (6 lessons)	Programming A: Robot algorithms (6 lessons)	Data & Information: Pictograms (6 lessons)	Creating Media: Digital Music (6 lessons)	Programming B: Programming quizzes (6 lesson)	Online Safety (5 lessons)
	lessons)	Pupils will learn to	Pupil's understanding of	Pupils will begin to	Pupils will be using a		1. To understand
		recognise that different	instructions in sequences and	understand what the term	computer to create music.	Pupils begin to	the difference
	Pupils will develop their	devices can be used to	the use of logical reasoning to	data means and how data	They will listen to a variety	understand that	between online
	understanding of what	capture photographs and	predict outcomes will be	can be collected in the form	of pieces of music and	sequences of commands	and offline
	information (IT) is and will	will gain experience	developed. Pupil's will use	of a tally chart. They will	consider how music can	have an outcome and	
	begin to identify examples.	capturing, editing, and	given commands in different	learn the term 'attribute'	make them think and feel.	make predictions based	2. To understand
	They will discuss where	improving photos. Finally,	orders to investigate how the	and use this to help them	Pupils will compare	on their learning. They	what information I
	they have seen IT is school	they will use this	order affects the outcome.	organise data. They will	creating music digitally and	use and modify designs to	should not post
	and beyond, in settings	knowledge to recognise	They will also learn about	then progress onto	non-digitally. They will look	create their own quiz	online
	such as shops, hospitals,	that images they see may	design programming. They	presenting data in the form	at patterns and	questions in ScratchJr,	3. To know what
	and libraries. Pupils will	not be real.	will develop artwork and test	of pictograms and finally	purposefully create music.	and realise these designs	the techniques are
	investigate how IT improves		it for use in the program.	block diagrams. Leaners		in ScratchJr using blocks	for creating a
	our world, and they will learn about the importance	1. To use a digital	They will design algorithms and then test those as	will use the data presented to answer questions.	1. To say how music can	of code. Finally, pupils will evaluate their work	strong password
	of using IT responsibly.	device to take a	programs and debug them.	to answer questions.	make us feel	and make improvements	
	or using it responsibly.	photograph	programs and debug them.	1 To record data an a	2. To create a rhythm	to their programming	4. To know that
	1. To recognise the uses	 To make choices when taking a 	1. To describe a series of	 To record data on a tally chart and 	pattern and play an instrument following it	projects.	you should ask
	 To recognise the uses and features of 	photograph –	instructions as a	compare totals	3. To experiment with	1	permission from
	information	landscape or portrait	sequence	2. To recognise that	sound using a	1. To start a sequence	others before
	technology	3. To describe what	2. To explain what happens	objects can be	computer	of commands using	sharing about
	2. To identify the uses of	makes a good	when we change the	represented as	4. To use a computer to	the green flag	them online and
	information	photograph	order of instructions	pictures	create a musical	2. To explain that a	that they have the right to say 'no'
	technology in the	4. To describe how	3. To predict the outcome	3. To create a pictogram	pattern	sequence of	ingine to say no
	school	photographs can be	of a program	4. To select objects by	5. To create music for a	commands has an	5. To understand
		improved – light and	4. To explain that	attribute and make	purpose	outcome	that not everything
		focus	programming projects	comparisons			

	 To identify information technology beyond school To explain how information technology helps us To explain how to use information technology safely To recognise that choices are made when using information technology 	 To use simple image editing tools to change an image To recognise that photos can be changed 	can have code and artwork 5. To design an algorithm 6. To create and debug a program I have written	 To recognise that people can be described by attributes To use a computer to present information 	6. To review and refine our computer work	 To create a program using a given design To modify a given design to create their own quiz questions To create a program using my own design To improve my project and debug my program 	they see or read online is true
Year 3	Computing Systems & Networks: Connecting computers (6 lessons)	Creating Media: Stop- frame animation (6 lessons)	Programming A: Sequencing sounds (6 lessons)	Data & Information: Branching databases (6 lessons)	Creating Media: Desktop publishing (6 lessons)	Programming B: Events and actions in programs (6 lessons)	Online Safety (4 lessons)
	Pupils will develop their understanding of digital devices, with an initial focus on inputs, processes and outputs. They will also compare digital and non- digital devices. Next, pupils will be introduced to computer networks, including devices that make up a networks' infrastructure, such as wireless access points and switches. Finally, pupils will discover the benefits of connecting devices in a network.	 (6 lessons) Pupils will use a range of techniques to create a stop-frame animation using tablets. Next, they will apply those skills to create a story-based animation. This unit will conclude with pupils adding other types of media to their animation, such as music and text. 1. To explain that animation is a sequence of drawings or photographs by creating a flip book 	Pupils will explore the concept of sequencing in programming through Scratch. It begins with an introduction to the programming environment, which will be new to most learners. They will be introduced to a selection of motion, sound, and event blocks which they will use to create their own programs, featuring sequences. The final project is to make a representation of a piano. Pupils will also apply stages of program design through this unit	(6 lessons) Pupils will develop their understanding of what a branching database is and how to create one. They will use yes/no questions to gain an understanding of what attributes are and how to use them to sort groups of objects. Pupils will create physical and on- screen branching databases. Pupils will then create an identification tool using a branching database, which they will test by using it. They will also consider real world applications.	Pupils will become familiar with the terms 'text' and 'images' and understand that they can be used to communicate messages. They will use desktop publishing software and consider careful choices of font size, colour and type to edit and improve premade documents. Learners will be introduced to the terms 'templates', 'orientation', and 'placeholders' and begin to understand how these can support them in making their own template for a magazine front cover. They will start to add text and images to create their own pieces of work using desktop publishing software. Learners will look at a range of	(b lessons) This unit explores the links between events and actions, while consolidating prior learning relating to sequencing. Pupils begin by moving a sprite in four directions (up, down, left, and right). They then explore movement within the context of a maze, using design to choose an appropriately sized sprite. Pupils are given the opportunity to draw lines with sprites and change the size and colour of lines. The unit concludes	 To know that not everything on the internet is true: people share facts, beliefs and opinions online To understand that the internet can affect your moods and feelings To know that privacy settings limit who can access your important personal information such as your name, age
	 To explain how digital devices function To identify the input and output devices To recognise how digital devices can change the way we work To explain how a computer network can 	 To relate animated movement with a sequence of images to create stop-frame animation using a tablet To plan an animation using a storyboard To create stop-frame animations using 	 To explore a new programming environment To identify that commands have an outcome To explain how event blocks can be used to start a program 	 To create questions with yes/no answers To identify the attributes needed to collect data about an object To create a branching database To explain why it is 	 page layouts thinking carefully about the purpose of these and evaluate how and why desktop publishing is used in the real world 1. To recognise how text and images convey information 	 with them designing and coding their own maze-tracing program. 1. To explain how a sprite moves in an existing project 2. To create a program to move a sprite in four directions 	etc. 4. To know what social media is and that age restrictions apply

Networks: The Internet (6 Lessons)Production (6 lessons)shapes (6 lessons)Logging (6 lessons)editing (6 lessons)Repetition in games (6 lessons)lessons)Children will apply their understanding of networks to appreciate the internet as a network of network which need to be kept secure. They will learn that the World Wide Web is part of the internet, and wills they will discuss the given opportunities to explore the World Wide Web for themselves in order to learn about who owns content and what they can access, add, and create. Finally, they will understand the consequences of false information.Production (6 lessons)shapes (6 lessons)Logging (6 lessons)Pupils will consider how and why data is collected over time. They will to search for information.Repetition in games (6 lessons)lessons)1To identify that scure to programming is importantPupils will consider how and the copyright miportantPupils will consider how and the copyright importantPupils will consider how and the copyright importantPupils will consider how and the copyright miportantI. To identify that accuracy important what 'repart controlled loopsPupils will consider how and the copyright importantPupils will consider how and the copyright make a judge and the copyright mutiple tracks, and opening and saving the end opening and saving the feedback to their work and give freedback to their pers. information.Logging (6 lessons)Pupils will consider how and why data is collected over time. They will algue as accurate, or reliable it is, and understand the consequences of false information.Pupils		 be used to share information 5. To explore how digital devices can be connected 6. To recognise the physical components of a network 	 onion skinning, and reviewing and my work 5. To review and improve an animation 6. To evaluate the impact of adding other media to an animation 	 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 and implement my algorithm as code 	 helpful for a database to be well structured 5. To plan the structure of a branching database 6. To independently create an identification tool 	 To edit text and recognise that layout can be edited To choose appropriate page settings and create a template for a purpose- orientation, placeholders To add context to a desktop publishing publication To consider how different layouts can suit different purposes To consider the benefits of desktop publishing 	 To adapt a program to a new context To develop my program by adding features – using pen blocks To identify and fix bugs in a program – debug To design and create a maze-based challenge 	
Children will apply their knowledge and understanding of networks to appreciate the internet as a network of networks which need to be kept secure. They will carsing of networks which need to be kept secure. They will carsing of networks which need to be kept secure. They will carsing of networks which need to be kept secure. They will carsing of networks of the internet, and will be given opportunities to explore the World Wide Web for themselves in order to learn about who which will to construct or creates, add, and create, information.Pupils will clear apograming to search for information with the delta is collected our time. They will consider the impace to appreciate the internet, and will be given opportunities to explore the World Wide Web for themselves in order to learn about who which will nectate program in a duplicating the work of oches, an order to record and the convright they can access, add, and create, information.Pupils will cloar the they computer scaled sensors to monitor the environment. Pupils will consequences of false information.Pupils will cloar the appograming is important they will accurate program in a text-based language 3. To explain that they consequences of false information.Pupils will cloar the important they will accurate program in a text-based language 3. To decompose a task into small steps and can use a procedure in a programPupils will cloar the the consequences of false information.Pupils will cloar the the consequences of false information.Pupils will cloar the the consequences of false information.Pupils will cloar the consequences of false information.Pupils will cloar the consequences of false information.Pupils will cloar t	Year 4		Creating Media – Audio Production (6 lessons)	Programming A: Repetition in shapes (6 lessons)	Data & Information: Data Logging (6 lessons)	Creating Media: Photo editing (6 lessons)		
1. To describe how sound can be uses count-controlled can be used to answer using a range of tools loops in a different 4. To underst that technology		knowledge and understanding of networks, to appreciate the internet as a network of networks which need to be kept secure. They will learn that the World Wide Web is part of the internet, and will be given opportunities to explore the World Wide Web for themselves in order to learn about who owns content and what they can access, add, and create. Finally, they will evaluate online content to decide how honest, accurate, or reliable it is, and understand the consequences of false information.	input device (microphone) and output devices (speaker or headphones) required to work with sound digitally. They will discuss the ownership of digital audio and the copyright implications of duplicating the work of others. In order to record audio themselves, pupils will produce a podcast, which will include editing their work, adding multiple tracks, and opening and saving the audio files. Finally, learners will evaluate their work and give feedback to their peers.	 planning, modifying, and testing commands to create shapes and patterns. They will use Logo, a text-based programming language. To identify that accuracy in programming is important To create a program in a text-based language To explain what 'repeat' means and use count- controlled loops To modify a count- controlled loop to produce a given outcome To decompose a task into small steps and can use a procedure in a program To create a program that uses count-controlled 	and why data is collected over time. They will consider the sense that humans use to experience the environment and how computers can use special input devices called sensors to monitor the environment. Pupils will collect data as well as access data captured over long periods of time. They will look at data points, sets, and logging intervals. They will also pose questions and then use data loggers to automatically collect the data needed to answer those questions.	understanding of how digital images can be changed and edited, and how they can then be resaved and reused. They will consider the impact that editing images can have, and evaluate the effectiveness of their choices. 1. To explain that the composition of digital images can be changed – rotating and cropping 2. To explain that colours can be changed in digital images and effect of them 3. To use cloning in photo editing 4. To combine images using a range of tools	concept of repetition in programming using the Scratch environment. The unit begins with a Scratch activity similar to that carried out in Logo. Pupils will look at the difference between count-controlled and infinite loops, and use their knowledge to modify existing animations and games using repetition. Their final project is to design and create a game which uses repetition, applying stages of programming design throughout.	 information within a wide group of technologies and make a judgement about the probable accuracy 2. To understand some of the methods used to encourage people to buy things online 3. To explain why lots of people sharing the same opinions or beliefs online do not make those opinions or

	 connect to other networks 2. To recognise how networked devices make up the internet 3. To explain how websites can be shared via the World Wide Web (WWW) and describe where they are stored 4. To describe how content can be added and accessed on the World Wide Web (WWW) 5. To explain that websites and their content are created by and owned by people 6. To evaluate the consequences of unreliable content 	 identify the input and output devices used to record and play it To edit an audio recording To recognise the different parts of creating a podcast project To apply audio editing skills independently To combine audio to enhance my podcast project To evaluate the and improve an audio recording/podcast 	outcome and debug when appropriate	 To use a digital device to collect data automatically To explain that a data logger collects 'data points' from sensors over time To recognise how a computer can help us analyse data To identify the data needed to answer questions To use data from sensors to answer questions 	 images might be edited 5. To combine images for a purpose 6. To review and make changes to improve my image 	 programming environment 2. To develop the use of count-controlled loops in a different programming environment 3. To develop a design that includes two or more loops which run at the same time 4. To modify an infinite loop in a given program 5. To design a project that includes repetition 6. To create a project that includes repetition 	act like or impersonate living things 5. To understand that technology can be a distraction and identify when someone might need to limit the amount of time spent using technology
Year 5	Computing Systems & Networks: Systems & searching (6 lessons) Pupils develop their understanding of computer systems and how information in transferred between devices. Pupils consider small-scale systems as well as large- scale systems. They explain the input and output, and process aspects of a variety of different real-world systems. Pupils discover how information is found on the World Wide Web, through learning how search engines word (including how they select and rank results) and what influences searching, and	Creating Media: Video Production (6 lessons) Pupils will learn how to create short videos by working in pairs or groups. As they progress through this unit, they will be exposed to topic- based language and develop the skills of capturing, editing, and manipulating video. Pupils are guided with step-by-step support to take their idea from conception to completion. They then have the opportunity to reflect on and assess their	Programming A: Selection in physical computing (6 lessons) In this unit, learners will use physical computing to explore the concept of selection in programming through the use of the Crumble programming environment. Learners will be introduced to a microcontroller (Crumble controller) and learn how to connect and program it to control components (including output devices — LEDs and motors). Learners will be introduced to conditions as a means of controlling the flow of actions in a program. Learners will make use of their knowledge of repetition and conditions when introduced to the concept of selection (through the 'fithen' structure) and write algorithms and programs that	 Data & Information: Flat-file databases (6 lessons) Pupils will look at how a flat-file database can be used to organise data in records. Pupils will use tools within a database to order and answer questions about data. They will create graphs and charts from their data to help solve problems. They will also use a real-life database to answer a question, and present their work to others. 1. To use a form to record information 	Creating Media: Introduction to vector graphics (6 lessons) Pupils start to create vector drawings. They learn how to use different drawing tools to help them create images. Pupils recognise that images in vector drawings are created using shapes and lines, and each individual element in the drawing is called an object. They layer their objects and begin grouping and duplicating them to support the creation of more complex pieces of work. 1. To identify that drawing tools can be	Programming B: Selection in quizzes (6 lessons) Pupils will develop their knowledge of 'selection' by revisiting how 'conditions' can be used in programming, and then learning how the 'if then else' structure can be used to select different outcomes depending on whether a condition is 'true' or 'false'. They represent this understanding in algorithms, and then by constructing programs in the Scratch programming environment. They learn how to write programs that ask questions and use selection to control	Online Safety (5 lessons) 1. To understand how apps can access our personal information and how to alter the permissions 2. To be aware of the positive and negative aspects of online communication 3. To understand how online information can be used to form judgements

	through comparing	progress in creating a	utilise this concept. To conclude	2. To compare paper and	used to produce	the outcomes based on	4. To know ways to
	 To explain that computers can be connected together to form systems To recognise the role of computers systems in our lives To explain 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 explain what makes a video effective To use a digital device to record video and experiment with different camera angles 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 	 the unit, learners will design and make a working model of a fairground carousel that will demonstrate their understanding of how the microcontroller and its components are connected, and how selection can be used to control the operation of the model. Throughout this unit, learners will apply the stages of programming design. 1. To control a simple circuit connected to a computer 2. To write a program that includes count-controlled loops 3. To explain that a loop can stop when a condition is met 4. To explain that a loop can be used to repeatedly check whether a condition has been met 5. To design a physical project that includes selection 6. To create a program that controls a physical computing project 	 computer-based databases To explain how you can answer questions by grouping and then sorting data To explain that tools can be used to select specific data To explain that computer programs can be used to compare data visually To use a real-world database to answer questions 	 different outcomes 2. To create a vector drawing by combining shapes 3. To use tools to achieve a desired effect 4. To recognise that vector drawings consist of layers 5. To group objects to make them easier to work with 6. To apply what I have learnt about vector drawings 	 the answers given. use this knowledge to design a quiz in response to a given task and implement it as a program. Pupils then evaluate their program by identifying how it meets the requirements of the task and how it can be improved. 1. To explain how selection in used in computer programs 2. To relate that a conditional statement connects a condition to an outcome 3. To explain how selection directs the flow of a program 4. To design a program that uses selection 5. To create a program that uses selection 6. To evaluate my program 	overcome bullying 5. To understand how technology can affect health and wellbeing
Year 6	Computing Systems & Networks: Communication & collaboration (6 lessons)	Creating Media: Web page creation Learners will be introduced to creating	Programming A: Variables in games (6 lessons) Pupils explore the concept of variables in programming	Data & Information: Introduction to spreadsheets (6 lessons)	Creating Media: 3D modelling (6 lessons) Pupils will develop their knowledge and	Programming B: Sensing movement (6 lessons) This unit brings together	Online Safety (6 lessons) 1. To describe issues online that
	Pupils explore how data is transferred over the internet. Learners initially focus on addressing, before they move on to the makeup and structure of data packets. Learners then look at how the internet facilitates online	websites for a chosen purpose. Learners identify what makes a good web page and use this information to design and evaluate their own website. Throughout the process, learners pay specific attention to	through games in Scratch. They will find out what variables are and relate them to real-world examples of values that can be set and changed. Then they use variables to create a simulation of a scoreboard. Pupils experiment with	Pupils will be introduced to spreadsheets. They will organise data into columns and rows to create their own data set. Pupils will be taught the importance of formatting data to support calculations, while also being introduced to	understanding of using a computer to produce 3D models. They will familiarise themselves with working in a 3D space, moving, resizing, and duplicating objects. They will then create hollow objects using placeholders	elements of all the four programming constructs: sequence, repetition, and variables. It offers pupils the opportunity to use all of these constructs in a different, but still familiar environment, while also	give us negative feelings and know ways to get help 2. To understand the impact and consequences of sharing online

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communication and	copyright and fair use of	variables in an existing	formulas. Pupils will learn	and combine multiple	utilising a physical device	3. To know how to
collaboration; they	media, the aesthetics of	project, then modify them,	how to apply formulas to a	objects to create a model	— the micro: bit.	create a positive
complete shared projects	the site, and navigation	before they create their own	range of cells and apply	of a desk tidy. Finally, pupils		online reputation
online and evaluate	paths.	project. Pupils then design,	formulas to a range of cells	will examine the benefits of	1. To create a program	
different methods of		create and evaluate their	by duplicating them. Pupils	grouping and ungrouping	to run on a	4. To be able to
communication. Finally,	1. To review an existing	own project by applying their	will then use spreadsheets	3D objects, then go on to	controllable device	describe how to
they learn to communicat	website and	knowledge of variables.	to plan an event and	plan, develop, and evaluate	2. To explain that	capture bullying
responsibly by considerin	consider its structure		answer questions. Finally,	their own 3D model of a	selection can control	content as
what should and should r	2. To plan the features	1. To define a 'variable' as	they will create charts, and	building.	the flow of a	evidence
be shared on the internet	of a web page	something that is	evaluate their results in		program	
	3. To consider the	changeable	comparison to the	1. To recognise that you	3. To update a variable	5. To manage
1. To explain the	ownership and use	2. To explain why a	questions asked.	can work in three	with a user input	personal
importance of intern	of images (copyright)	variable is used in a		dimensions on a	4. To use a conditional	passwords
addresses	4. To recognise the	program	1. To create a data set in	computer	statement to	effectively
2. To recognise how da	a need to preview	3. To choose how to	a spreadsheet	2. To identify that digital	compare a variable	
is transferred across	pages	improve a game by using	2. To build a data set in a	3D objects can be	to a value	6. To be aware of
the internet	5. To explain what a	variables	spreadsheet	modified – resize,	5. To design a project	strategies to help
3. To explain how shari	navigation path is	4. To design a project that	3. To explain that	lift/lower and recolour	that uses inputs and	be protected
online can help peop	e and make multiple	builds on a given	formulas can be used	3. To recognise that	outputs on a	online
work together	web pages and link	example	to produce calculated	objects can be	controllable device	
4. To evaluate the	them using	5. To use my design to	data	combined in a 3D	6. To develop a	
different ways of	hyperlinks	create a project	4. To apply formulas to	model – rotate,	program to use	
working together	6. To recognise the	6. To evaluate my project	data	duplicate and group	inputs and outputs	
online	implications of	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5. To create a	4. To create a 3D model	on a controllable	
5. To recognise how we	linking to content		spreadsheet to plan an	for a given purpose	device	
communicate using	owned by other		event	5. To plan my own 3D		
technology	people		6. To choose suitable	model		
6. To evaluate different			ways to present data	6. To create my own		
methods of online				digital 3D model		
communication						