Year Group	UNIT	Unit Name	Lesso n	Learning Objectives	Success Criteria
3		Computing systems and networks – Connecting computers	1	-To explain how digital devices function	-I can explain that digital devices accept inputs - I can explain that digital devices produce outputs - I can follow a process
3		Computing systems and networks – Connecting computers	2	-To identify input and output devices	-I can classify input and output devices -I can describe a simple process -I can design a digital device
3	AUTUMN 1	Computing systems and networks – Connecting computers	3	-To recognise how digital devices can change the way we work	 I can explain how I use digital devices for different activities I can recognise similarities between using digital devices and non-digital tools I can suggest differences between using digital devices and non-digital tools
3	AO I OIVIIN I	Computing systems and networks – Connecting computers	4	-To explain how a computer network can be used to share information	-I can discuss why we need a network switch - I can explain how messages are passed through multiple connections - I can recognise different connections
3		Computing systems and networks – Connecting computers	5	-To explore how digital devices can be connected	-I can demonstrate how information can be passed between devices - I can explain the role of a switch, server, and wireless access point in a network - I can recognise that a computer network is made up of a number of devices
3		Computing systems and networks – Connecting computers	6	-To recognise the physical components of a network	-I can identify how devices in a network are connected together - I can identify networked devices around me - I can identify the benefits of computer networks
3		Creating media – Desktop publishing	1	-To recognise how text and images convey information	-I can explain the difference between text and images - I can identify the advantages and disadvantages of using text and images - I can recognise that text and images can communicate messages clearly
3		Creating media – Desktop publishing	2	-To recognise that text and layout can be edited	-I can change font style, size, and colours for a given purpose - I can edit text - I can explain that text can be changed to communicate more clearly
3		Creating media – Desktop publishing	3	-To choose appropriate page settings	-I can create a template for a particular purpose - I can define the term 'page orientation' - I can recognise placeholders and say why they are important
3	AUTUMN 2	Creating media – Desktop publishing	4	-To add content to a desktop publishing publication	-I can choose the best locations for my content - I can make changes to content after I've added it - I can paste text and images to create a magazine cover
3		Creating media – Desktop publishing	5	-To consider how different layouts can suit different purposes	-I can choose a suitable layout for a given purpose - I can identify different layouts - I can match a layout to a purpose
3		Creating media – Desktop publishing	6	-To consider the benefits of desktop publishing	-I can compare work made on desktop publishing to work created by hand - I can identify the uses of desktop publishing in the real world - I can say why desktop publishing might be helpful
3		Programming A - Sequencing sounds	1	-To explore a new programming environment	-I can explain that objects in Scratch have attributes (linked to) - I can identify the objects in a Scratch project (sprites, backdrops) - I can recognise that commands in Scratch are represented as blocks
3		Programming A - Sequencing sounds	2	-To identify that commands have an outcome	-I can choose a word which describes an on-screen action for my plan - I can create a program following a design - I can identify that each sprite is controlled by the commands I choose
3		Programming A - Sequencing sounds	3	-To explain that a program has a start	- I can create a sequence of connected commands - I can explain that the objects in my project will respond exactly to the code - I can start a program in different ways

3	OF KING T	Programming A - Sequencing sounds	4	-To recognise that a sequence of commands can have an order	-I can combine sound commands - I can explain what a sequence is - I can order notes into a sequence
3		Programming A - Sequencing sounds	5	-To change the appearance of my project	-I can build a sequence of commands -I can decide the actions for each sprite in a program -I can make design choices for my artwork
3		Programming A - Sequencing sounds	6	-To create a project from a task description	-I can identify and name the objects I will need for a project - I can implement my algorithm as code - I can relate a task description to a design
3		Programming B - Events and actions in programs	1	-To explain how a sprite moves in an existing project	-I can choose which keys to use for actions and explain my choices -I can explain the relationship between an event and an action -I can identify a way to improve a program
3		Programming B - Events and actions in programs	2	-To create a program to move a sprite in four directions	-I can choose a character for my project -I can choose a suitable size for a character in a maze -I can program movement
3	ODDING O	Programming B - Events and actions in programs	3	-To adapt a program to a new context	-I can choose blocks to set up my program -I can consider the real world when making design choices -I can use a programming extension
3	SPRING 2	Programming B - Events and actions in programs	4	-To develop my program by adding features	-I can build more sequences of commands to make my design work -I can choose suitable keys to turn on additional features -I can identify additional features (from a given set of blocks)
3		Programming B - Events and actions in programs	5	-To identify and fix bugs in a program	-I can match a piece of code to an outcome -I can modify a program using a design -I can test a program against a given design
3		Programming B - Events and actions in programs	6	-To design and create a maze-based challenge	-I can evaluate my project -I can implement my design -I can make design choices and justify them
3		Creating media - Stop-frame animation	1	-To explain that animation is a sequence of drawings or photographs	-I can create an effective flip book—style animation -I can draw a sequence of pictures -I can explain how an animation/flip book works
3		Creating media - Stop-frame animation	2	-To relate animated movement with a sequence of images	-I can create an effective stop-frame animation -I can explain why little changes are needed for each frame -I can predict what an animation will look like
3	0.000	Creating media - Stop-frame animation	3	-To plan an animation	-I can break down a story into settings, characters and events -I can create a storyboard -I can describe an animation that is achievable on screen
3	SUMMER 1	Creating media - Stop-frame animation	4	-To identify the need to work consistently and carefully	-I can evaluate the quality of my animation -I can review a sequence of frames to check my work -I can use onion skinning to help me make small changes between frames
3		Creating media - Stop-frame animation 5 -To review and improve an animation	-To review and improve an animation	-I can evaluate another learner's animation -I can explain ways to make my animation better -I can improve my animation based on feedback	
3		Creating media - Stop-frame animation	6	-To evaluate the impact of adding other media to an animation	-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
3		Data and information – Branching databases	1	-To create questions with yes/no answers	-I can create two groups of objects separated by one attribute -I can investigate questions with yes/no answers -I can make up a yes/no question about a collection of objects
3		Data and information – Branching databases	2	-To identify the attributes needed to collect data about an object	-I can arrange objects into a tree structure -I can create a group of objects within an existing group -I can select an attribute to separate objects into groups

3		Data and information – Branching databases	3	-To create a branching database	-I can group objects using my own yes/no questions - I can select objects to arrange in a branching database - I can test my branching database to see if it works
3	SUMMER 2	Data and information – Branching databases	4	-To explain why it is helpful for a database to be well structured	 -I can compare two branching database structures -I can create yes/no questions using given attributes -I can explain that questions need to be ordered carefully to split objects into similarly sized groups
3		Data and information – Branching databases	5	-To plan the structure of a branching database	-I can create a physical version of a branching database - I can create questions that will enable objects to be uniquely identified - I can independently create questions to use in a branching database
3		Data and information – Branching databases	6	-To independently create an identification tool	-I can create a branching database that reflects my plan -I can suggest real-world uses for branching databases -I can work with a partner to test my identification tool
4		Computing systems and networks – The Internet	1	-To describe how networks physically connect to other networks	-I can demonstrate how information is shared across the internet - I can describe the internet as a network of networks - I can discuss why a network needs protecting
4		Computing systems and networks – The Internet	2	-To recognise how networked devices make up the internet	-I can describe networked devices and how they connect - I can explain that the internet is used to provide many services - I can recognise that the World Wide Web contains websites and web pages
4		Computing systems and networks – The Internet	3	-To outline how websites can be shared via the World Wide Web (WWW)	-I can describe how to access websites on the WWW - I can describe where websites are stored when uploaded to the WWW - I can explain the types of media that can be shared on the WWW
4	AUTUMN 1	Computing systems and networks – The Internet	4	-To describe how content can be added and accessed on the World Wide Web (WWW)	-I can explain that internet services can be used to create content online - I can explain what media can be found on websites - I can recognise that I can add content to the WWW
4		Computing systems and networks – The Internet	5	-To recognise how the content of the WWW is created by people	-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
4		Computing systems and networks – The Internet	6	-To evaluate the consequences of unreliable content	-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
4		Creating media – Photo editing	1	-To explain that the composition of digital images can be changed	-I can explain why I might crop an image - I can improve an image by rotating it - I can use photo editing software to crop an image
4		Creating media – Photo editing	2	-To explain that colours can be changed in digital images	-I can experiment with different colour effects - I can explain that different colour effects make you think and feel different things - I can explain why I chose certain colour effects
4	AUTUMN 2	Creating media – Photo editing	3	-To explain how cloning can be used in photo editing	-I can add to the composition of an image by cloning - I can identify how a photo edit can be improved - I can remove parts of an image using cloning
4		Creating media – Photo editing	4	-To explain that images can be combined	-I can experiment with tools to select and copy part of an image - I can explain why photos might be edited - I can use a range of tools to copy between images
4		Creating media – Photo editing	5	-To combine images for a purpose	-I can choose suitable images for my project - I can create a project that is a combination of other images - I can describe the image I want to create
4		Creating media – Photo editing	6	-To evaluate how changes can improve an image	-I can combine text and my image to complete the project - I can review images against a given criteria - I can use feedback to guide making changes

4		Creating media - Audio production	1	-To identify that sound can be recorded	-I can explain that the person who records the sound can say who is allowed to use it - I can identify the input and output devices used to record and play sound - I can use a computer to record audio
4		Creating media - Audio production	2	-To explain that audio recordings can be edited	-I can discuss what sounds can be added to a podcast - I can inspect the soundwave view to know where to trim my recording - I can re-record my voice to improve my recording
4	SPRING 1	Creating media - Audio production	3	-To recognise the different parts of creating a podcast project	I can explain how sounds can be combined to make a podcast more engaging I can plan appropriate content for a podcast I can save my project so the different parts remain editable
4		Creating media - Audio production	4	-To apply audio editing skills independently	-I can improve my voice recordings - I can record content following my plan - I can review the quality of my recordings
4		Creating media - Audio production	5	-To combine audio to enhance my podcast project	-I can arrange multiple sounds to create the effect I want - I can explain the difference between saving a project and exporting an audio file - I can open my project to continue working on it
4		Creating media - Audio production	6	-To evaluate the effective use of audio	-I can choose appropriate edits to improve my podcast - I can listen to an audio recording to identify its strengths - I can suggest improvements to an audio recording
4		Programming A – Repetition in shapes	1	-To identify that accuracy in programming is important	-I can create a code snippet for a given purpose - I can explain the effect of changing a value of a command - I can program a computer by typing commands
4		Programming A – Repetition in shapes	2	-To create a program in a text-based language	-I can test my algorithm in a text-based language - I can use a template to create a design for my program - I can write an algorithm to produce a given outcome
4	SPRING 2	Programming A – Repetition in shapes	3	-To explain what 'repeat' means	-I can identify everyday tasks that include repetition as part of a sequence, eg brushing teeth, dance moves - I can identify patterns in a sequence - I can use a count-controlled loop to produce a given outcome
4		Programming A – Repetition in shapes	4	-To modify a count-controlled loop to produce a given outcome	-I can choose which values to change in a loop - I can identify the effect of changing the number of times a task is repeated - I can predict the outcome of a program containing a count-controlled loop
4		Programming A – Repetition in shapes	5	-To decompose a task into small steps	-I can explain that a computer can repeatedly call a procedure - I can identify 'chunks' of actions in the real world - I can use a procedure in a program
4		Programming A – Repetition in shapes	6	-To create a program that uses count-controlled loops to produce a given outcome	-I can design a program that includes count-controlled loops - I can develop my program by debugging it - I can make use of my design to write a program
4		Programming B – Repetition in games	1	-To develop the use of count-controlled loops in a different programming environment	-I can list an everyday task as a set of instructions including repetition - I can modify a snippet of code to create a given outcome - I can predict the outcome of a snippet of code
4		Programming B – Repetition in games	2	-To explain that in programming there are infinite loops and count controlled loops	-I can choose when to use a count-controlled and an infinite loop - I can modify loops to produce a given outcome - I can recognise that some programming languages enable more than one process to be run at once
4	SUMMER 1	Programming B – Repetition in games	3	-To develop a design that includes two or more loops which run at the same time	-I can choose which action will be repeated for each object - I can evaluate the effectiveness of the repeated sequences used in my program - I can explain what the outcome of the repeated action should be
4		Programming B – Repetition in games	4	-To modify an infinite loop in a given program	-I can explain the effect of my changes -I can identify which parts of a loop can be changed -I can re-use existing code snippets on new sprites

				T	-l can develop my own design explaining what my project will do
4		Programming B – Repetition in games	5	-To design a project that includes repetition	- I can evaluate the use of repetition in a project
4		Programming B – Repetition in games	5	- To design a project that includes repetition	- I can select key parts of a given project to use in my own design
					-1 can build a program that follows my design
4		Drogramming B. Banatitian in games	6	To greate a project that includes repetition	- I can evaluate the steps I followed when building my project
4		Programming B – Repetition in games	O	-To create a project that includes repetition	
					- I can refine the algorithm in my design -I can choose a data set to answer a given question
4		Data and information – Data logging	1	-To explain that data gathered over time can be	
4		Data and information – Data logging	1	used to answer questions	- I can identify data that can be gathered over time
					- I can suggest questions that can be answered using a given data set
4		Data and information Data leaving	_	To use a digital device to called data automatically	-I can explain what data can be collected using sensors
4		Data and information – Data logging	2	-To use a digital device to collect data automatically	- I can identify that data from sensors can be recorded - I can use data from a sensor to answer a given question
		Data and information Data Is main a	_	-To explain that a data logger collects 'data points'	-I can identify the intervals used to collect data
4		Data and information – Data logging	3	from sensors over time	- I can recognise that a data logger collects data at given points
	SUMMER 2				- I can talk about the data that I have captured
				-To recognise how a computer can help us analyse	-I can explain that there are different ways to view data
4		Data and information – Data logging	4	data	- I can sort data to find information
					- I can view data at different levels of detail
_			_		-I can plan how to collect data using a data logger
4		Data and information – Data logging	5	-To identify the data needed to answer questions	- I can propose a question that can be answered using logged data
					- I can use a data logger to collect data
		Data and information – Data logging	6	-To use data from sensors to answer questions	-I can draw conclusions from the data that I have collected
4					- I can explain the benefits of using a data logger
					- I can interpret data that has been collected using a data logger
		Computing systems and networks - Systems and searching	1	-To explain that computers can be connected together to form systems	-I can describe that a computer system features inputs, processes, and outputs
5					- I can explain that computer systems communicate with other devices
					- I can explain that systems are built using a number of parts
		Computing systems and networks - Systems and searching	2	-To recognise the role of computer systems in our lives	-I can explain the benefits of a given computer system
5					- I can identify tasks that are managed by computer systems
					- I can identify the human elements of a computer system
		Computing systems and networks - Systems and searching	3	-To experiment with search engines	-I can compare results from different search engines
5					- I can make use of a web search to find specific information
	AUTUMN 1				- I can refine my web search
		Computing systems and networks -			-I can explain why we need tools to find things online
5		Systems and searching	4	-To describe how search engines select results	- I can recognise the role of web crawlers in creating an index
		Cystoms and scaroning			- I can relate a search term to the search engine's index
		Computing systems and networks -			-I can explain that a search engine follows rules to rank results
5		Systems and searching	5	-To explain how search results are ranked	- I can give examples of criteria used by search engines to rank results
		Cystems and scaroning			- I can order a list by rank
		Computing systems and networks -		-To recognise why the order of results is important,	-I can describe some of the ways that search results can be influenced
5		Systems and searching	6	and to whom	- I can explain how search engines make money
		Systems and sourching		and to whom	- I can recognise some of the limitations of search engines
					-I can compare features in different videos
5		Creating media - Video production	1	-To explain what makes a video effective	- I can explain that video is a visual media format
					- I can identify features of videos
					-I can experiment with different camera angles
5		Creating media - Video production	2	-To identify digital devices that can record video	- I can identify and find features on a digital video recording device
					- I can make use of a microphone
					-I can capture video using a range of filming techniques
5		Creating media - Video production	3	-To capture video using a range of techniques	- I can review how effective my video is
					- I can suggest filming techniques for a given purpose

	AUTUMN 2				-I can create and save video content
5	AO I OMIN Z	Creating media - Video production	4	-To create a storyboard	- I can decide which filming techniques I will use
3		Oreating media - video production	7	- To create a storyboard	- I can outline the scenes of my video
					-I can explain how to improve a video by reshooting and editing
5		Creating media - Video production	5	-To identify that video can be improved through	- I can select the correct tools to make edits to my video
0		Creating media - video production	0	reshooting and editing	- I can store, retrieve, and export my recording to a computer
					-I can evaluate my video and share my opinions
				-To consider the impact of the choices made when	- I can make edits to my video and improve the final outcome
5		Creating media - Video production	6	making and sharing a video	- I can recognise that my choices when making a video will impact on the quality of the
				Thaking and sharing a video	final outcome
					-I can create a simple circuit and connect it to a microcontroller
5		Programming A – Selection in physical	1	-To control a simple circuit connected to a	- I can explain what an infinite loop does
Ŭ		computing	·	computer	- I can program a microcontroller to make an LED switch on
					-I can connect more than one output component to a microcontroller
5		Programming A – Selection in physical	2	-To write a program that includes count-controlled	- I can design sequences that use count-controlled loops
J		computing	_	loops	- I can use a count-controlled loop to control outputs
					-I can design a conditional loop
5		Programming A – Selection in physical	3	-To explain that a loop can stop when a condition is	- I can explain that a condition is either true or false
J		computing	J	met	- I can program a microcontroller to respond to an input
	SPRING 1				-I can explain that a condition being met can start an action
5		Programming A – Selection in physical	4 5	-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	- I can identify a condition and an action in my project
3		computing			- I can use selection (an 'ifthen' statement) to direct the flow of a program
					-I can create a detailed drawing of my project
5		Programming A – Selection in physical computing			
5				1-10 design a physical project that includes selection	- I can identify a real-world example of a condition starting an action
					- I can test and debug my project
5		Programming A – Selection in physical computing	6	-To create a program that controls a physical computing project	- I can use selection to produce an intended outcome
5					- I can write an algorithm that describes what my model will do
					-I can create a database using cards
5		Data and information – Flat-file databases	1	-To use a form to record information	- I can explain how information can be recorded
5					- I can order, sort, and group my data cards
					-I can choose which field to sort data by to answer a given question
5		Data and information – Flat-file databases	2	-To compare paper and computer-based databases	
5					- I can navigate a flat-file database to compare different views of information
					-I can combine grouping and sorting to answer specific questions
E		Data and information – Flat-file	3	-To outline how you can answer questions by	- I can explain that data can be grouped using chosen values
5		databases		grouping and then sorting data	·
	SPRING 2				- I can group information using a database
5		Data and information – Flat-file	4	-To explain that tools can be used to select specific	-I can choose multiple criteria to answer a given question
Э		databases	4	data	- I can choose 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
5		Data and information – Flat-file	5	-To explain that computer programs can be used to	-I can explain the benefits of using a computer to create charts
5		databases	Э	compare data visually	- I can refine a chart by selecting a particular filter
					- I can select an appropriate chart to visually compare data
-		Data and information – Flat-file	0	To the a most world details as to answer	-I can ask questions that will need more than one field to answer
5		databases	6	-To use a real-world database to answer questions	- I can present my findings to a group
					- I can refine a search in a real-world context
_		Creating media – Introduction to vector		-To identify that drawing tools can be used to	-I can discuss how vector drawings are different from paper-based drawings
5		graphics	1	produce different outcomes	- I can experiment with the shape and line tools
		•			- I can recognise that vector drawings are made using shapes
_		Creating media – Introduction to vector			-I can explain that each element added to a vector drawing is an object
5		graphics	2	-To create a vector drawing by combining shapes	- I can identify the shapes used to make a vector drawing
		3 - 1			- I can move, resize, and rotate objects I have duplicated

5	SUMMER 1	Creating media – Introduction to vector graphics	3	-To use tools to achieve a desired effect	 -I can explain how alignment grids and resize handles can be used to improve consistency -I can modify objects to create a new image -I can use the zoom tool to help me add detail to my drawings
5	OOMINER	Creating media – Introduction to vector graphics	4	-To recognise that vector drawings consist of layers	 -I can change the order of layers in a vector drawing -I can identify that each added object creates a new layer in the drawing -I can use layering to create an image
5		Creating media – Introduction to vector graphics	5	-To group objects to make them easier to work with	-I can copy part of a drawing by duplicating several objects -I can recognise when I need to group and ungroup objects -I can reuse a group of objects to further develop my vector drawing
5		Creating media – Introduction to vector graphics	6	-To apply what I have learned about vector drawings	-I can compare vector drawings to freehand paint drawings - I can create a vector drawing for a specific purpose - I can reflect on the skills I have used and why I have used them
5		Programming B – Selection in quizzes	1	-To explain how selection is used in computer programs	-I can identify conditions in a program - I can modify a condition in a program - I can recall how conditions are used in selection
5		Programming B – Selection in quizzes	2	-To relate that a conditional statement connects a condition to an outcome	-I can create a program with different outcomes using selection - I can identify the condition and outcomes in an 'if then else' statement - I can use selection in an infinite loop to check a condition
5	SUMMER 2	Programming B – Selection in quizzes	3	-To explain how selection directs the flow of a program	-I can design the flow of a program which contains 'if then else' - I can explain that program flow can branch according to a condition - I can show that a condition can direct program flow in one of two ways
5	COMMERCE	Programming B – Selection in quizzes	4	-To design a program which uses selection	-I can identify the outcome of user input in an algorithm - I can outline a given task - I can use a design format to outline my project
5		Programming B – Selection in quizzes	5	-To create a program which uses selection	-I can implement my algorithm to create the first section of my program - I can share my program with others - I can test my program
5		Programming B – Selection in quizzes	6	-To evaluate my program	-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
6		Computing systems and networks - Communication and collaboration	1	-To explain the importance of internet addresses	-I can describe how computers use addresses to access websites -I can explain that internet devices have addresses -I can recognise that data is transferred using agreed methods
6		Computing systems and networks - Communication and collaboration	2	-To recognise how data is transferred across the internet	-I can explain that all data transferred over the internet is in packets -I can explain that data is transferred over networks in packets -I can identify and explain the main parts of a data packet
6	AUTUMN 1	Computing systems and networks - Communication and collaboration	3	-To explain how sharing information online can help people to work together	-I can explain that the internet allows different media to be shared - I can recognise how to access shared files stored online - I can send information over the internet in different ways
6		Computing systems and networks - Communication and collaboration	4	-To evaluate different ways of working together online	-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
6		Computing systems and networks - Communication and collaboration	5	-To recognise how we communicate using technology	-I can choose methods of communication to suit particular purposes - I can explain the different ways in which people communicate - I can identify that there are a variety of ways to communicate over the internet
6		Computing systems and networks - Communication and collaboration	6	-To evaluate different methods of online communication	-I can compare different methods of communicating on the internet - I can decide when I should and should not share information online - I can explain that communication on the internet may not be private

6		Data and information – Spreadsheets	1	-To create a data set in a spreadsheet	-I can collect data - I can enter data into a spreadsheet
					- I can suggest how to structure my data
					-I can apply an appropriate format to a cell
6		Data and information – Spreadsheets	2	-To build a data set in a spreadsheet	- I can choose an appropriate format for a cell
					- I can explain what an item of data is
					-I can construct a formula in a spreadsheet
6		Data and information – Spreadsheets	3	-To explain that formulas can be used to produce	- I can explain which data types can be used in calculations
		·	ŭ	calculated data	- I can identify that changing inputs changes outputs
	AUTUMN 2				-I can apply a formula to multiple cells by duplicating it
6		Data and information – Spreadsheets	4	-To apply formulas to data	- I can calculate data using different operations
U		Data and information – Spreadsneets	-		- I can create a formula which includes a range of cells
			_		-I can apply a formula to calculate the data I need to answer questions
6		Data and information – Spreadsheets	5	-To create a spreadsheet to plan an event	- I can explain why data should be organised
					- I can use a spreadsheet to answer questions
					-I can produce a chart
6		Data and information – Spreadsheets	6	-To choose suitable ways to present data	- I can suggest when to use a table or chart
					- I can use a chart to show the answer to questions
					-I can add 3D shapes to a project
6		Creating media – 3D Modelling	1	-To recognise that you can work in three dimensions on a computer	- I can move 3D shapes relative to one another
ŭ		Orcating media – 3D Modelling			- I can view 3D shapes from different perspectives
					-I can lift/lower 3D objects
6		Creating media – 3D Modelling	2	-To identify that digital 3D objects can be modified	- I can recolour a 3D object
О					
					- I can resize an object in three dimensions
_		Creating media – 3D Modelling	3	-To recognise that objects can be combined in a 3D model	-I can duplicate 3D objects
6					- I can group 3D objects
	SPRING 1				- I can rotate objects in three dimensions
	01 141110 1	Creating media – 3D Modelling	4 -	-To create a 3D model for a given purpose	-I can accurately size 3D objects
6					- I can combine a number of 3D objects
					- I can show that placeholders can create holes in 3D objects
				-To plan my own 3D model	-I can analyse a 3D model
6		Creating media – 3D Modelling	5		- I can choose objects to use in a 3D model
-					- I can combine objects in a design
					-I can construct a 3D model based on a design
6		Creating media – 3D Modelling	6	-To create my own digital 3D model	- I can explain how my 3D model could be improved
U		oreating media – 3D Modelling	U	1-10 create my own digital 3D model	- I can modify my 3D model to improve it
					-I can apply my knowledge of programming to a new environment
6		Drogramming B. Canaina mayon and	4	-To create a program to run on a controllable	
6		Programming B - Sensing movement	1	device	- I can test my program on an emulator
					- I can transfer my program to a controllable device
				-To explain that selection can control the flow of a	-I can determine the flow of a program using selection
6		Programming B - Sensing movement	2	program	- I can identify examples of conditions in the real world
				program	- I can use a variable in an if, then, else statement to select the flow of a program
					-I can experiment with different physical inputs
6		Programming B - Sensing movement	3	-To update a variable with a user input	- I can explain that checking a variable doesn't change its value
	ODDING 3				- I can use a condition to change a variable
	SPRING 2				-I can explain the importance of the order of conditions in else, if statements
6		Programming B - Sensing movement	4	-To use a conditional statement to compare a	- I can modify a program to achieve a different outcome
ŭ				variable to a value	- I can use an operand (e.g. <>=) in an if, then statement
					- I can decide what variables to include in a project
		Dragonomina D. Canaina may	-	-To design a project that uses inputs and outputs	· •
6		Programming B - Sensing movement		on a controllable device	- I can design the algorithm for my project
					- I can design the program flow for my project

6		Programming B - Sensing movement	6	-To develop a program to use inputs and outputs on a controllable device	-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
6		Programming A – Variables in games	1	-To define a 'variable' as something that is changeable	-I can explain that the way a variable changes can be defined - I can identify examples of information that is variable - I can identify that variables can hold numbers or letters
6		Programming A – Variables in games	2	-To explain why a variable is used in a program	-I can explain that a variable has a name and a value - I can identify a program variable as a placeholder in memory for a single value - I can recognise that the value of a variable can be changed
6	SUMMER 1	Programming A – Variables in games	3	-To choose how to improve a game by using variables	 -I can decide where in a program to change a variable -I can make use of an event in a program to set a variable -I can recognise that the value of a variable can be used by a program
6	SUMMER	Programming A – Variables in games	4	-To design a project that builds on a given example	-I can choose the artwork for my project - I can create algorithms for my project - I can explain my design choices
6		Programming A – Variables in games	5	-To use my design to create a project	-I can choose a name that identifies the role of a variable - I can create the artwork for my project - I can test the code that I have written
6		Programming A – Variables in games	6	-To evaluate my project	-I can identify ways that my game could be improved - I can share my game with others - I can use variables to extend my game
6		Creating media – Web page creation	1	-To review an existing website and consider its structure	-I can discuss the different types of media used on websites - I can explore a website - I know that websites are written in HTML
6		Creating media – Web page creation	2	-To plan the features of a web page	-I can draw a web page layout that suits my purpose - I can recognise the common features of a web page - I can suggest media to include on my page
6		Creating media – Web page creation	3	-To consider the ownership and use of images (copyright)	-I can describe what is meant by the term 'fair use' - I can find copyright-free images - I can say why I should use copyright-free images
6	SUMMER 2	Creating media – Web page creation	4	-To recognise the need to preview pages	-I can add content to my own web page - I can evaluate what my web page looks like on different devices and suggest/make edits - I can preview what my web page looks like
6		Creating media – Web page creation	5	-To outline the need for a navigation path	-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
6		Creating media – Web page creation	6	-To recognise the implications of linking to content owned by other people	-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