BINGHAM PRIMARY SCHOOL CURRICULUM

Subject: Computing

Key Stage: 2

A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world.

Computing has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems. The core of computing is computer science, in which pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming.

Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content. Computing also ensures that pupils become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world.

Aims

The national curriculum for computing aims to ensure that all pupils:

- * can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- * can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- * can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- * are responsible, competent, confident and creative users of information and communication technology

At Key stage 2 Pupils should be taught to:

- * design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- * use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- * use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- * understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
- * use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- * select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- * use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Weeks	Autumi 1 Connecting	n Term 2	Spring	Torm	C	
Weeks	1 Connecting	2	Spring Term		Summer Term	
	Connecting	2	1	2	1	2
	computers	Stop-frame animation	Sequence in Music	Branching databases	Desktop Publishing	Events and actions
	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	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	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	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	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	To explain how a sprife 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	To identify input and output devices - I can classify input and output devices - I can design a digital device - I can model a simple process To identify input and output devices	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	I can identify that each sprite is controlled by the commands I choose - I can choose a word which describes an on-screen action for my design - I can create a program following a design - I can identify that each sprite is controlled by the commands I choose	To identify the object attributes needed to collect relevant data - 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	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	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
4	- 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 devices and non-digital tools To explain how a computer network can be used to	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 To identify the need to work consistently and carefully	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 To recognise that a sequence of commands	To create a branching database - I can group objects using my own yes/no questions - I can prove my branching database works - I can select objects to arrange in a branching database To identify objects using a branching database	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 To add content to a desktop	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 To develop my program by adding features

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	- I can discuss why we need a network switch - I can explain how messages are passed through multiple connections - I can recognise different connections	- 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	- I can combine sound commands - I can explain what a sequence is - I can order notes into a sequence	- I can create questions and apply them to a tree structure - I can select a theme and choose a variety of objects - I can use my branching database to answer questions	- I can 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	- 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)
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	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	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	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 aroups	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	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
6	To recognise the physical components of a network - I can identify how devices in a network are connected with one another - I can identify networked devices around me - I can identify the benefits of computer networks	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	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	To compare the information shown in a pictogram with a branching database - I can compare two ways of presenting information - I can explain what a branching database tells me - I can explain what a pictogram tells me	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	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

	Year 4						
	Autum	n Term	Spring	g Term	Summer Term		
Weeks	1	2	1	2	1	2	
	The Internet	Audio editing	Repetition in shapes	Data logging	Photo editing	Repetition in Games	
1	To describe how networks physically connect to other networks	To identify that sound can be digitally recorded: - I can identify digital devices that can record	To identify that accuracy in programming is important	To explain that data gathered over time can be used to answer questions	To explain that digital images can be changed	To develop the use of count- controlled loops in a different programming environment	
	- 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	sound and play it back - I can identify the inputs and outputs required to play audio or record sound - I can recognise the range of sounds that can be recorded	- 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	- I can choose a data set to answer a given question - I can identify data that can be gathered over time - I can suggest questions that can be answered using a given data set	- I can explain the effect that editing can have on an image - I can explore how images can be changed in real life - I can identify changes that we can make to an image	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	
2	To recognise how networked devices make up the internet - I can describe the different networked devices and how they connect - I can explain how the internet allows us to view the World Wide Web - I can recognise that the World Wide Web is the part of the internet that contains websites and web pages	To use a digital device to record sound: - I can discuss what other people include when recording sound for a podcast - I can suggest how to improve my recording - I can use a device to record audio and play back sound	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	To use a digital device to collect data automatically - I can explain that sensors are input devices - I can identify that data from sensors can be recorded - I can use data from a sensor to answer a given question	To change the composition of an image -I can change the composition of an image by selecting parts of it -I can consider why someone might want to change the composition of an image -I can explain what has changed in an edited image	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	
3	To outline how websites can be shared via the World Wide Web - 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 World Wide Web (WWW)	To explain that a digital recording is stored as a file: - I can discuss why it is useful to be able to save digital recordings - I can plan and write the content for a podcast - I can save a digital recording as a file	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, eg 'step 3 times' means the same as 'step, step, step' - I can use a count-controlled loop to produce a given outcome	To explain that a data logger collects 'data points' from sensors over time - I can identify a suitable place to collect data - I can identify the intervals used to collect data - I can talk about the data that I have captured	To describe how images can be changed for different uses - I can choose effects to make my image fit a scenario - I can explain why my choices fit a scenario - I can talk about changes made to images	To develop a design which 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	To describe how content	To explain that audio can be changed through	To modify a count-	To use data collected over a long duration to find	To make good choices	To modify an infinite loop in a given program
	can be added and	editing:	controlled loop to produce	information	when selecting different	a given program
	accessed on the World	cag.	a given outcome		tools	- I can explain the effect of
	Wide Web	- I can discuss ways in which	- I can choose which values	- I can import a data set	- I can choose appropriate	my changes
	- I can create media which	audio recordings can be	to change in a loop	- I can use a computer	tools to retouch an image	- I can identify which parts
	can be found on websites	altered	- I can identify the effect of	program to sort data	- I can give examples of	of a loop can be changed
	- I can explain that new	- I can edit sections of of an	changing the number of	- I can use a computer to	positive and negative	- I can re-use existing code
	content can be created	audio recording	times a task is repeated	view data in different ways	effects that retouching can	snippets on new sprites
	online	- I can open a digital	- I can predict the outcome		have on an image	
	- I can recognise that I can	recording from a file	of a program containing a		- I can identify how an	
	add content to the WWW		count-controlled loop		image has been retouched	
5	To recognise how the	To show that different types	To decompose a program		To recognise that not all	To design a project that
	content of the WWW is	of audio can be combined	into parts	To identify the data needed	images are real	includes repetition
	created by people	and played together:		to answer questions		
			- I can explain that a		- I can combine parts of	- I can develop my own
	- I can explain that there are	- I can choose suitable	computer can repeatedly	- I can plan how to collect	images to create new	design explaining what my
	rules to protect content	sounds to include in a	call a procedure	data using a data logger	images	project will do
	- I can explain that websites	podcast	- I can identify 'chunks' of	- I can propose a question	- I can sort images into	- I can evaluate the use of
	and their content are	- I can discuss sounds that	actions in the real world	that can be answered using	'fake' or 'real' and explain	repetition in a project
	created by people	other people combine	- I can use a procedure in a	logged data	my choices - I can talk about fake	- I can select key parts of a
	- I can suggest who owns the content on websites	- I can use editing tools to arrange sections of audio	program	- I can use a data logger to collect data	images around me	given project to use in my own design
	To evaluate the	To evaluate editing choices	To create a program that	Collect data	To evaluate how changes	Own design
6	consequences of unreliable	made:	uses count-controlled loops	To use collected data to	can improve an image	To create a project that
	content	made.	to produce a given	answer questions	can improve an image	includes repetition
	Comem	- I can discuss the features	outcome	diswer questions	- I can compare the original	includes repellion
	- I can explain that not	of a digital recording I like	00.000	- I can draw conclusions	image with my completed	- I can build a program that
	everything on the World	- I can explain that digital	- I can design a program	from the data that I have	publication	follows my design
	Wide Web is true.	recordings need to be	that includes count-	collected	- I can consider the effect of	- I can evaluate the steps I
	- I can explain why I need to	exported to share them	controlled loops	- I can explain the benefits	adding other elements to	followed when building my
	think carefully before I share	- I can suggest	- I can develop my program	of using a data logger	my work	project
	or reshare content	improvements to a digital	by debugging it	- I can interpret data that	- I can evaluate the impact	- I can refine the algorithm
	- I can explain why some	recording	- I can make use of my	has been collected using a	of my publication on others	in my design
	information I find online may		design to write a program	data logger	through feedback	
	not be honest, accurate, or					
	legal.					

	Year 5							
	Autum	n Term	Spring	g Term	Summe	er Term		
Weeks	1	2	1	2	1	2		
	Sharing information	Video editing	Selection in physical computing	Flat-file data bases	Vector drawing	Selection in quizzes		
1	To explain that computers can be connected together to form systems - I can describe that a computer system features inputs, processes, and outputs - I can explain that computer systems communicate with other devices - I can explain that systems are built using a number of parts	To recognise video as moving pictures, which can include audio - I can explain that a video can include both visual and audio media - I can explain the benefits of adding audio to a video - I can plan a video project using a storyboard	To control a simple circuit connected to a computer - I can build a simple circuit to connect a microcontroller to a computer - I can explain why I used an infinite loop - I can program a microcontroller to light an LED	To use a form to record information - I can create multiple questions about the same field - I can explain how information can be recorded - I can order, sort, and group my data cards	To identify that drawing tools can be used to produce different outcomes - I can discuss how a vector drawing is different from paper-based drawings - I can identify the main drawing tools - I can recognise that vector drawings are made using shapes	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		
2	To recognise the role of computer systems in our lives - I can explain the benefits of a given computer system - I can identify tasks that are managed by computer systems - I can identify the human elements of a computer system	To identify digital devices that can record video - I can choose the most suitable digital device for recording my project - I can identify and name digital devices that can record video and sound - I can locate and identify the working features of a digital device that can record video	To write a program that includes count-controlled loops - I can connect more than one output device to a microcontroller - I can decide which output devices I control with a count-controlled loop - I can design sequences for given output devices	To compare paper and computer-based databases - I can choose which field to sort data by to answer a given question - I can explain what a 'field' and a 'record' is in a database - I can navigate a flat-file database to compare different views of information	To create a vector drawing by combining shapes - I can explain that each element added to a vector drawing is an object - I can identify the shapes used to make a vector drawing - I can move, resize, and rotate objects I have duplicated	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 ifthen else statement - I can use selection in an infinite loop to check a condition		
3	To recognise how information is transferred over the internet - I can explain that data is transferred over networks in packets - I can explain that networked digital devices have unique addresses - I can recognise that data is transferred using agreed methods	To capture video using a digital device - I can demonstrate suitable methods of using a digital device to capture my video - I can demonstrate the safe use and handling of devices - I can select a suitable device and software to capture my video	To explain that a loop can stop when a condition is met, eg number of times - I can experiment with a 'do until' loop - I can explain that a condition is something that can either be true or false (eg whether a value is more than 10, or whether a button has been pressed) - I can program a	To outline how grouping and then sorting data allows us to answer questions - I can combine grouping and sorting to answer more specific questions - I can explain how information can be grouped - I can group information to answer questions	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 different effects - I can use the zoom tool to help me add detail to my drawings	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		

			microcontroller to respond to an input			
4	To explain how sharing information online lets people in different places work together - I can explain that the internet allows different media to be shared - I can recognise that connected digital devices can allow us to access shared files stored online - I can send information over the internet in different ways	To recognise the features of an effective video - I can explain why lighting and angle are important in creating an effective video - I can list some of the features of an effective video - I can record a video that demonstrates some of the features of an effective video	To conclude that a loop can be used to repeatedly check whether a condition has been met -I can explain that a condition being met can start an action -I can identify a condition and an action in my project -I can use selection (an 'if then' statement) to direct the flow of a program	To explain that tools can be used to select specific data - I can choose multiple criteria to answer a given question - 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	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 identify which objects are in the front layer or in the back layer of a drawing	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	To contribute to a shared project online -I can compare working online with working offline -I can make thoughtful suggestions on my group's work -I can suggest strategies to ensure successful group work	To identify that video can be improved through reshooting and editing - I can explain how to improve a video by reshooting and editing - I can select the correct tools to make edits to my video - I can store, retrieve, and export my recording to a computer	To design a physical project that includes selection - I can create a detailed drawing of my project - I can describe what my project will do (the task) - I can identify a condition to start an action (real world)	To explain that computer programs can be used to compare data visually - I can explain the benefits of using a computer to create graphs - I can refine a chart by selecting a particular filter - I can select an appropriate chart to visually compare data	To group objects to make them easier to work with - I can copy part of a drawing by duplicating several objects - I can group to create a single object - I can reuse a group of objects to further develop my vector drawing	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
6	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	To consider the impact of the choices made when making and sharing a video - I can evaluate my video and share my opinions - I can make edits to my video and improve the final outcome - I can recognise that my choices when making a video will impact on the quality of the final outcome	To create a controllable system that includes selection - I can test and debug my project - I can use selection to produce an intended outcome - I can write an algorithm to control lights and a motor	To apply my knowledge of a database to ask and answer real-world questions - I can ask questions that will need more than one field to answer - I can present my findings to a group - I can refine a search in a real-world context	To evaluate my vector drawing - I can apply what I have learned about vector drawings - I can suggest improvements to a vector drawing - I create alternatives to vector drawings	To evaluate my program - I can extend my program further - I can identify ways the program could be improved - I can identify what setup code my project needs

	Year 6							
	Autum	n Term	Spring	g Term	Summe	er Term		
Weeks	1	2	1	2	1	2		
	Communication	Web page creation	Variables in games	Introduction to spreadsheets	3D modelling	Sensing		
1	To identify how to use a search engine	To review an existing website and consider its structure	To define a 'variable' as something that is changeable	To identify questions which can be answered using data	To use a computer to create and manipulate three-dimensional (3D) digital objects - I can discuss the similarities	To create a program to run on a controllable device		
	- I can compare results from different search engines - I can complete a web search to find specific information - I can refine my search	- I can discuss the different types of media used on websites - I can explore a website - I know that websites are written in HTML	- I can explain that the way that 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	- I can answer questions from an existing data set - I can ask simple relevant questions which can be answered using data - I can explain the relevance of data headings	and differences between 2D and 3D shapes - I can explain why we might represent 3D objects on a computer - I can select, move, and delete a digital 3D shape	- I can apply my knowledge of programming to a new environment - I can test my program on an emulator - I can transfer my program to a controllable device		
2	r carrierine m, coarem		To explain why a variable is used in a program	role range or dara nedaling	acione a alginar ob arrape	To explain that selection can control the flow of a		
	To describe how search engines select results	To plan the features of a web page	- I can explain that a variable has a name and a	To explain that objects can be described using data	To compare working digitally with 2D and 3D graphics	program - I can determine the flow of		
	 I can explain why we need tools to find things online I can recognise the role of web crawlers in creating an index I can relate a search term to the search engine's index 	- 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	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	- I can apply an appropriate number format to a cell - I can build a data set in a spreadsheet application - I can explain what an item of data is	- I can change the colour of a 3D object - I can identify how graphical objects can be modified - I can resize a 3D object	a program using selection - I can identify examples of conditions in the real world - I can use a variable in an if then else statement to select the flow of a program		
3	To explain how search results are ranked - I can explain that a search	To consider the ownership and use of images (copyright)	To choose how to improve a game by using variables	To explain that formula can be used to produce calculated data		To update a variable with a user input		
	engine follows rules to rank relevant pages - I can explain that search results are ordered - I can suggest some of the criteria that a search engine checks to decide on the order of results	- 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	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	- I can construct a formula in a spreadsheet - I can explain the relevance of a cell's data type - I can identify that changing inputs changes outputs	To construct a digital 3D model of a physical object - I can position 3D objects in relation to each other - I can rotate a 3D object - I can select and duplicate multiple 3D objects	- I can experiment with different physical inputs - I can explain that if you read a variable, the value remains - I can use a condition to change a variable		
4	To recognise why the order of results is important, and to whom - I can describe some of the ways that search results can	To recognise the need to preview pages - I can add content to my own web page - I can evaluate what my	To design a project that builds on a given example - I can choose the artwork for my project - I can create algorithms for	To apply formulas to data, including duplicating - I can apply a formula to multiple cells by duplicating it	To identify that physical objects can be broken down into a collection of 3D shapes	To use an conditional statement to compare a variable to a value - I can explain the importance of the order of		

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	be influenced - I can explain how search engines make money - I can recognise some of the limitations of search engines	web page looks like on different devices and suggest/make edits. - I can preview what my web page looks like	my project - I can explain my design choices	- I can create a formula which includes a range of cells - I can recognise that data can be calculated using different operations	- I can create digital 3D objects of an appropriate size - I can group a digital 3D shape and a placeholder to create a hole in an object - I can identify the 3D shapes needed to create a model of a real-world object	conditions in else if statements - I can modify a program to achieve a different outcome - I can use an operand (e.g. <>=) in an if then statement
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 of communicating over the internet	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	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	To create a spreadsheet to plan an event - I can apply a formula to calculate the data I need to answer questions - I can explain why data should be organised - I can use a spreadsheet to answer questions	To design a digital model by combining 3D objects - I can choose which 3D objects I need to construct my model - I can modify multiple 3D objects - I can plan my 3D model	To design a project that uses inputs and outputs on a controllable device - I can decide what variables to include in a project - I can design the algorithm for my project - I can design the program flow for my project
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 - I can explain that communication on the internet may not be private	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	To evaluate my project - I can extend my game further using more variables - I can identify ways that my game could be improved - I can share my game with others	To choose suitable ways to present data - I can produce a graph - I can suggest when to use a table or graph - I can use a graph to show the answer to questions	To develop and improve a digital 3D model - I can decide how my model can be improved - I can evaluate my model against a given criterion - I can modify my model to improve it	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

