Skills, knowledge and progression in Computing

Nursery and Reception

During the EYFS years, children become familiar with coding Bee Bots to go on specific routes and directions, using headphones to listen to audio, play with toy phones and use the interactive whiteboards and iPads.

Year 1						
Online Safety	Grouping and Sorting	Lego Builders Unit 3: 3 Lessons	Animated Story Books	Coding	Spreadsheets Unit 6: 3 Lessons	
Unit 1: 4 Lessons	Unit 2: 3 Lessons		Unit 4: 5 Lessons	Unit 5: 6 Lessons		
To know how to find saved work and resources. To add pictures and text to work.	To sort items using a range of criteria.	To create and order simple instructions.	To add animation, sound and backgrounds to an e- book.	To create code where characters move when clicked. To explore collision and detection.	To add images to spreadsheets and use tools to count items.	
 Online Safety National Curriculum Strand Digital Literacy Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. Lesson 1 To login safely. To start to introduce to the children the idea of 'ownership' of their creative work. Lesson 2 To know how to find saved work in the Online Work area and find teacher comments. To know how to search Purple Mash to find resources. Lesson 3 To become familiar with the types of resources available in the Topics section. To start to add pictures and text to work. Lesson 4 To explore the Tools section of Purple Mash and to learn about the common icons used in Purple Mash. To understand the importance of loging out when they have finished. 	Grouping and Sorting National Curriculum Strand Computer Science Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content Lesson 1 To sort items on the computer using the 'Grouping' activities in Purple Mash. Pictograms National Curriculum Strand Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content Lesson 1 To understand that data can be represented in picture format Lesson 3 To use a pictogram to record the results of an experiment.	Lego Builders National Curriculum Strand Computer Science Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. Lesson 1 To emphasise the importance of following instructions. Lesson 2 To follow and create simple instructions on the computer. Lesson 3 To consider how the order of instructions affects the result. Maze Explorers National Curriculum Strand Computer Science Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs Use logical reasoning to predict the behaviour of simple programs Use logical reasoning to predict the behaviour of simple programs Due able to use the direction keys in Challenges 1 and 2. To be able to use the direction keys in Challenges 1 and 2. To be able to use the direction keys in Challenges 3 and 4. To understand the functionality of the basic direction keys in Challenges 3 and 4. To understand the functionality of the basic direction keys in Challenges 3 and 4. To understand how to create and debug a set of instructions (algorithm). Lesson 3 To use the additional direction keys as part of their algorithm. To understand how to change and extend the algorithm list. To create a longer algorithm for an activity. Lesson 4 To provide an opportunity for the children to set challenges as 2Dos for all the class to try.	Animated Story Books National Curriculum Strand Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content Lesson 1 To be introduced to e-books and to 2Create a Story. Lesson 2 To acontinue a previously saved story. To add animation to a story. Lesson 3 To add sound to a story including voice recording and music the children have created. Lesson 4 To work on a more complex story including adding backgrounds and copying and pasting pages Lesson 5 To use additional features to enhance their stories. To share their e-books on a class display board.	Coding National Curriculum Strand Computer Science Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content Lesson 1 Introduction to coding. Lesson 3 Introduction to block coding on screen. Lesson 4 Making a character move left and right. Lesson 5 Making a character move when clicked. Lesson 6 Introduction to Collision Detection.	Spreadsheets National Curriculum Strand Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content Lesson 1 Introduction to spreadsheets Lesson 2 Adding images to a spreadsheet and using the image toolbox Lesson 3 Using the 'speak' and 'count' tools in 2Calculate to count items Technology Outside of School National Curriculum Strand Digital Literacy Recognise common uses of information technology beyond school Lesson 1 To walk around the local community and find examples of where technology is used. Lesson 2 To record examples of technology outside school.	

Year 2						
Coding	Online Safety	Spreadsheets Unit 3: 4 Lessons	Questioning	Creating Pictures	Presenting Ideas	
Unit 1: 5 Lessons	Unit 2: 2 Lessons	Unit 3: 4 Lessons	Unit 4: 5 Lessons	Unit 5: 5 Lessons	Unit 6: 4 Lessons	
To use repeat and timer commands and debug programs.	To refine searches, share work and respond to email.	To copy and paste, add amounts and create table/lock graphs.	To construct a binary tree to separate items.	To explore pointillist art and recreate it using the lines/patterns template.	To create a quiz, fact file and presentation about a topic.	
Coding National Curriculum Strand Computer Science Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs. Online Safety Lesson 1 To introduce algorithms. Lesson 2 To use Repeat and Timer commands. Lesson 3 To debug programs. Lesson 4 To explore the possible actions of different types of objects. Lesson 5 To create a more complex program to retell a story, using 2Code.	Online Safety National Curriculum Strand Digital Literacy Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. Lesson 1 To know how to refine searches using the search tool. To know how to share work electronically using the display boards. Have some knowledge and understanding about sharing work on Purple Mash and the Internet. Lesson 2 Using 2email respond characters. How do we talk to others when they aren't there to talk in front of us?	Spreadsheets National Curriculum Strand Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Lesson 1 Reviewing prior use of spreadsheets. Lesson 2 Copying and Pasting Totalling tools. Lesson 3 Using a spreadsheet to add amounts. Lesson 4 Creating a table and block graph.	Questioning National Curriculum Strand Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Lesson 1 To show that the information provided on pictogram is of limited use beyond answering simple questions. Lesson 2 To use YES or No questions to separate information. Lesson 3 To construct a binary tree to separate different items. Lesson 4 Use 2Question (a binary tree) to answer questions. Lesson 5 To use a database to answer more complex search questions. To use the search tool to to find information Effective Searching National Curriculum Strand Information Lesson 1 To explore how a story can be presented in different ways. L	Creating Pictures National Curriculum Strand Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Lesson 1 To be introduced to 2Paint A Picture. To look at the impressionist style of art (Monet, Degas, Renoir) Lesson 2 To recreate pointillist art and look at the work of pointillist artists such as Seurat. Lesson 3 To look at the work of Piet Mondrian and recreate it using the Lines template. Lesson 4 To look at the work of William Morris and recreate it using the Patterns template. Lesson 5 To explore surrealism and eCollage Making Music National Curriculum Strand Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content Lesson 1 To be introduced to making music digitally using 2Sequence. To explore, edit and combine sounds using 2Sequence	Presenting Ideas National Curriculum Strand Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content Lesson 1 To explore how a story can be presented in different ways. Lesson 2 To make a quiz about a story or class topic. Lesson 3 To make a fact file on a nonfiction topic Lesson 4 To make a presentation to the class.	

Year 3						
Coding	Online Safety Unit 2: 3 Lessons	Touch Typing Unit 3: 4 Lessons	Email Unit 4: 6 Lessons	Branching Database	Simulations Unit 6: 6 Lessons	
Unit 1: 6 Lessons				Unit 5: 4 Lessons		
To create a program to accomplish a specific goal. To use 'if' statements and introduce variables.	To create pie charts, bar graphs and coordinates	To improve the speed and efficiency of typing.	To safely open, respond and add attachments to an email	To complete a branching database.	To explore, analyse and evaluate a simulation.	
Coding National Curriculum Strand Computer Science 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. Lesson 1 To design and write a program that accomplishes a specific goal. Lesson 2 To design and write a program that simulates a physical system. Lesson 3 To use repetition commands. Lesson 4 To introduce 'if' statements. Lesson 6 To introduce variables.	Online Safety National Curriculum Strand Digital Literacy Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. Lesson 1 Safe passwords and communication methods. Lesson 2 Is everything on the Internet true? Spreadsheets National Curriculum Strand Computer Science 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. Lesson 1 To create pie charts and bar graphs. Lesson 3 To use the 'more than', 'less than' and 'equals' tools. Lesson 3 To introduce the Advanced Mode of 2Calculate and use coordinates	Touch Typing National Curriculum Strand Information Technology 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. Lesson 1 To discuss the need for correct posture when typing. To introduce typing terminology. Lesson 2 To practise and improve typing skills. Lesson 4 To start to type words. Lesson 4 To improve the speed and efficiency of typing skills.	Email National Curriculum Strand Information Technology 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. Computer Science 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. Digital Literacy Use technology safely, respectfully and responsibly; recognise Acceptable and unacceptable behaviour; identify a range of ways to report concerns about content and contact. Lesson 1 To think about the different methods of communication. Lesson 2 To open and respond to an email. To write an email to someone, using an address book. Lesson 4 To learn how to use email safely. Lesson 6 To explore a simulated email scenario.	Branching Database National Curriculum Strand Information Technology 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. Lesson 1 To sort objects using just YES/NO questions. Lesson 2 To complete a branching database using 2Question. Lesson 3 and 4 To create a branching database of the children's choice.	Simulations National Curriculum Strand Information Technology Select, use and combine a variety of software (including internet services) on a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. Lesson 1 To look at what simulations are. Lesson 2 To explore a simulation. Graphing National Curriculum Strand Information Technology Select, use and combine a variety of software (including internet services) on a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. Lesson 1 To enter data into a graph and answer questions Lesson 2 To solve an investigation and present the results in graphic form.	

Year 4						
Coding	Online Safety	Spreadsheets	ets Writing for Logo Different Audiences		Effective Searching	
Unit 1: 6 Lessons	Unit 2: 4 Lessons	Unit 3: 5 Lessons	Unit 4: 5 Lessons	Unit 5: 4 Lessons	Unit 6: 6 Lessons	
To create a program	To understand how to	To add formulae and	To change font size and style	To use the language of logo	To search effectively t	
with a character that repeats actions.	protect yourself from identity theft and that everything you do online leaves a digital footprint.	formatting cells.	to change the impact of a text.	to create letters.	locate information an consider what makes reliable source.	
Coding	Online Safety	Spreadsheets	Writing for Different	Logo	Effective Searching	
National Curriculum	National Curriculum	National Curriculum	Audiences	National Curriculum	National Curriculum	
Strand	Strand	Strand	National Curriculum	Strand	Strand	
Computer Science	Computer Science	Information Technology	Strand	Computer Science	Computer Science	
Design, write and debug	Understand computer	Select, use and combine	Information Technology Select, use and combine	Design, write and debug	Understand computer	
programs that accomplish specific	networks, including the	a variety of software (including internet	a variety of software	programs that accomplish specific	networks, including the	
goals, including	Internet; how they can provide multiple	services) on a range of	(including internet	goals, including	Internet; how they can provide multiple	
controlling or simulating	services, such as the	digital devices to design	services) on a range of	controlling or simulating	services, such as the	
physical systems; solve	World Wide Web; and	and create a range of	digital devices to design	physical systems; solve	World Wide Web; and	
problems by	the opportunities they	programs, systems and	and create a range of	problems by	the opportunities they	
decomposing them into	offer for communication	content that accomplish	programs, systems and	decomposing them into	offer for communication	
smaller parts.	and collaboration.	given goals, including	content that accomplish	smaller parts.	and collaboration.	
Use sequence, selection	Digital Literacy	collecting, analysing,	given goals, including	Use sequence, selection	Information Technology	
and repetition in	Use technology safely,	evaluating and	collecting, analysing,	and repetition in	Use search technologie	
programs; work with	respectfully and	presenting data and	evaluating and	programs; work with	effectively, appreciate	
variables and various	responsibly; recognise	information.	presenting data and	variables and various	how results are selected	
forms of input and	acceptable/unacceptable		information.	forms of input and	and ranked, and be	
output.	behaviour; identify a	Lesson 1		output.	discerning in evaluating	
Use logical reasoning to	range of ways to report	Using the formula wizard	Lesson 1	Use logical reasoning	digital content.	
explain how some simple	concerns about content	in the advanced mode to	To explore how font size	to explain how some		
algorithms work and to	and contact.	add formulae and	and style can affect the	simple algorithms	Lesson 1	
detect and correct errors		explore formatting cells Lesson2	impact of a text. Lesson 2 and 3	work and to detect and	To locate information o	
in algorithms and programs	Lesson 1	Timer and spin button	To use a simulated	correct errors in algorithms and	the search results page. Lesson 2	
Information Technology	To understand how	Lesson 3	scenario to produce a	programs	To use search effectivel	
Select, use and combine	children can protect	Line graphs	news report.	programs	to find out information.	
a variety of software	themselves from online	Lesson 4	Lesson 4 and 5	Lesson 1	Lesson 3	
(including internet	identity theft.	Using a spreadsheet for	To use a simulated	To learn the language of	To assess whether an	
services) on a range of	Understand that	budgeting	scenario to produce a	Logo. To input simple	information source is	
digital devices to design	information put online	Lesson 5	news report.	instructions on Logo.	true and reliable.	
and create a range of	leaves a digital footprint	Exploring Place Value		Lesson 2		
programs, systems and	or trail and that this can	with a spreadsheet		For the children to use	Hardware Investigators	
content that accomplish	aid identity theft.			Logo to create letters.	National Curriculum	
given goals, including	Lesson 2			Lesson 3	Strand	
collecting, analysing,	To Identify the risks and			For the children to use	Computer Science	
evaluating and	benefits of installing			Logo to create letters.	Understand computer	
presenting data and	software including apps.			Lesson 4	networks, including the	
information.	Lesson 3			Animation	Internet; how they can	
lesson 1	To understand that			National Curriculum	provide multiple	
Lesson 1 To review coding	copying the work of			Strand	services, such as the World Wide Web; and	
vocabulary. To use a	others and presenting it as their own is called			Information Technology	the opportunities they	
sketch or storyboard to	'plagiarism' and to			Select, use and	offer for communicatio	
represent a program	consider the			combine a variety of	and collaboration.	
design and algorithm.	consequences of			software (including		
To use the design to	plagiarism. To identify			internet services) on a	Lesson 1	
create a program.	appropriate behaviour			range of digital devices	To understand the	
Lesson 2	when participating or			to design and create a	different parts that mal	
To introduce the If/else	contributing to			range of programs,	up a computer.	
statement and use it in a	collaborative online			systems and content	Lesson 2	
program.	projects for learning.			that accomplish given	To recall the different	
To create a variable.	Lesson 4			goals, including	parts that make up a	
To explore a flowchart	To identify the positive			collecting, analysing,	computer.	
design for a program	and negative influences			evaluating and		
with an if/else statement To create a program	of technology on health and the environment. To			presenting data and information.		

				[]
,	understand the		Lesson 1	
	importance of balancing		To discuss what makes a	
	game and screen time		good animated film or	
	with other parts of their		cartoon and what their	
	lives.		favourites are. To learn	
actions. To use the			how animations are	
Repeat Until command			created by hand. To find	
to make characters			out how 2Animate can	
repeat actions.			be created in a similar	
To program a character			way using the computer.	
to respond to user			Lesson 2	
keyboard input			To learn about onion	
Leson 4			skinning in animation. To	
To create a program with			add backgrounds and	
a character that repeats			sounds to animations.	
actions. To use the			Lesson 3	
Repeat Until command			To be introduced to stop	
to make characters			motion animation. To	
repeat actions.			share animation on the	
To program a			class display board and	
character to respond to			by blogging.	
user keyboard input				
Lesson 5				
To explore how 2Code				
can be used to				
investigate control by				
creating a simulation.				
Lesson 6				
To know what				
decomposition and				
abstraction are in				
computer science.				
To take a real-life				
situation, decompose it				
and think about the level				
of abstraction.				
To design a decomposed				
feature of a real-life				

Year 5						
Coding	Online Safety	Spreadsheets	Databases	Game Creator	Concept Maps	
Unit 1: 6 Lessons	Unit 2: 2 Lessons	Unit 3: 5 Lessons	Unit 4: 5 Lessons	Unit 5: 5 Lessons	Unit 6: 4 Lessons	
To create and improve a game and introduce text variables.	To understand how to keep personal information safe and the reliability of sources/people online	To use spreadsheets for conversions and to plan an event.	To create a database around a chosen topic.	To create a game environment and share a game.	To create a collaborative concept map and present this to an audience.	
Coding National Curriculum Strands Computer Science 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. Informational Technology 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. Lesson 1 Designing and writing a program that accomplishes a specific goal. Lesson 2 Simulating a physical system. Lesson 3 Introducing text variables. Lesson 6 Internet safety.	Online Safety National Curriculum Strands Computer Science 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. Digital Literacy Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. Lesson 1 To discuss and understand the importance of keeping personal information safe. To understand issues concerning the reliability of sources and people online. Lesson 2 To create a comic strip to share my knowledge about online safety.	Spreadsheets National Curriculum Strands Informational Technology 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. Lesson 1 Conversions of measurements. Lesson 2 Novel use of the count tool. Lesson 3 Formulae including the advanced mode. Lesson 4 Using text variables to perform calculations. Lesson 5 Using a spreadsheet to plan an event.	Databases National Curriculum Strands Informational Technology 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. Lesson 1 To learn how to search for information on a database. Lesson 2 To contribute to a class database. Lesson 3 and 4 To create a database around a chosen topic.	Game Creator National Curriculum Strands Computer Science Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts Informational Technology 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. Lesson 1 To set the scene. Lesson 2 To create the game environment. Lesson 1 To sreate the game quest. Lesson 5 To finish and share the game tervironment. Lesson 5 To finish and share the game of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and informational Technology 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. Lesson 1 To be introduced to 2Design and Make Lesson 2 To explore the effect of moving points when designing. Lesson 4 To understand designing for a purpose.	Concept Maps National Curriculum Strands Informational Technology 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. Lesson 1 To understand the need for visual representation when generating and discussing complex ideas Lesson 2 To understand and use the correct vocabulary when creating a concept map. To create a concept map Lesson 3 To understand how a concept map can be used to retell stories and information. Lesson 4 To create a collaborative concept map and present this to an audience.	

Year 6					
Coding	Online Safety	Spreadsheets	Blogging	Text Adventure	Quizzing
Unit 1: 6 Lessons	Unit 2: 3 Lessons	Unit 3: 5 Lessons	Unit 4: 5 Lessons	Unit 5: 4 Lessons	Unit 6: 6 Lessons
To design programs using objects and attribute specific actions using programming knowledge.	To understand how to balance screen time, how a digital footprint leaves a lasting impact and the dangers of broadcasting location.	To use a spreadsheet to model a real-life situation and come up with solutions that can be applied to real life.	To identify the purpose of writing a blog and the features of successful blog writing.	To code a map based adventure.	To make a quiz that requires the player to search a database.
Coding National Curriculum Strand Computer Science 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. Information Technology 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 . Lesson 1 and 2 To review good planning skills. To design programs using their choice of objects, attributing specific actions to each using their new programming knowledge. To use variables within a game to keep track of the properties of objects. Lesson 3 To use functions and understand why they are useful in 2Code. To debug a program and organise the code into tabs. To organise code into functions and Call functions to eliminate surplus code in the program. Lesson 5 To sue flowcharts to test and debug a program. To create a simulation of a room in which devices can be controlled. Lesson 6	Online SafetyNational Curriculum StrandComputer ScienceUnderstand computernetworks, including theInternet; how they canprovide multiple services,such as the World WideWeb; and the opportunitiesthey offer forcommunication andcollaboration.Information TechnologyUse search technologieseffectively, appreciate howresults are selected andranked, and be discerning inevaluating digital content.Digital LiteracyUse technology safely,recogniseacceptable/unacceptablebehaviour; identify a rangeof ways to report concernsabout content and contact*Lesson 1Identify benefits and risks ofmobile devices broadcastingthe location of theuser/device, e.g. appsaccessing location.Identify the benefits andrisks of giving personalinformation and deviceaccess to different software.Lesson 2To review the meaning of adigital footprint andunderstand how and whypeople use their informationand online presence tocreate a virtual image ofthemselves as a user. Tohave a clear idea ofappropriate onlinebehaviour and how this canprotect themselves andothers from possible onlinebehaviour and how this canprotect themselves andothers for behaviour. <td>Spreadsheets National Curriculum Strand Information Technology 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. Lesson 1 To explore probability. Lesson 2 To understand the use of spreadsheets in 'real life' To create a computational model Lesson 3 To make practical use of a spreadsheet to help plan actions Lesson 4 and 5 To use a spreadsheet to model a real-life situation and come up with solutions that can be applied to real life.</td> <td>Blogging National Curriculum Strand Computer Science 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. Information Technology 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. Digital Literacy Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact* Lesson 1 To identify the purpose of writing a blog. To identify the features of successful blog writing Lesson 2 To plan the theme and content for a blog. Lesson 3 To understand how to write a blog. To consider the effect upon the audience of changing the visual properties of the blog. To understand how to twrite a blog. To understand how to contribute to an existing blog. To understand how and why blog posts are approved by the teacher. Lesson 5 To understand the importance of commenting on blogs. To peer-assess blogs against the agreed success criteria.</td> <td>Text Adventures National Curriculum Strand Computer Science 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. Information Technology 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. Lesson 1 To find out what a text adventure. Lesson 3 To introduce map-based text adventure. Lesson 4 To code a map-based text adventure. Lesson 1 To discover what the children know about the internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration. Lesson 1 To discover what the children know about the internet. Lesson 2 To find out what a LAN and a WAN are. To find out how we access the internet in school.</td> <td>Quizzing National Curriculum Strand Information Technology 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. Lesson 1 To make a picture quiz for young children. Lesson 2 and 3 To learn how to use the question types within 2Quiz. Lesson 4 To explore the grammar quizzes. Lesson 5 To make a quiz that requires the player to search a database. Lesson 6 To use their knowledge of quiz types to create a quiz show quiz based on a curriculum area.</td>	Spreadsheets National Curriculum Strand Information Technology 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. Lesson 1 To explore probability. Lesson 2 To understand the use of spreadsheets in 'real life' To create a computational model Lesson 3 To make practical use of a spreadsheet to help plan actions Lesson 4 and 5 To use a spreadsheet to model a real-life situation and come up with solutions that can be applied to real life.	Blogging National Curriculum Strand Computer Science 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. Information Technology 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. Digital Literacy Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact* Lesson 1 To identify the purpose of writing a blog. To identify the features of successful blog writing Lesson 2 To plan the theme and content for a blog. Lesson 3 To understand how to write a blog. To consider the effect upon the audience of changing the visual properties of the blog. To understand how to twrite a blog. To understand how to contribute to an existing blog. To understand how and why blog posts are approved by the teacher. Lesson 5 To understand the importance of commenting on blogs. To peer-assess blogs against the agreed success criteria.	Text Adventures National Curriculum Strand Computer Science 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. Information Technology 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. Lesson 1 To find out what a text adventure. Lesson 3 To introduce map-based text adventure. Lesson 4 To code a map-based text adventure. Lesson 1 To discover what the children know about the internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration. Lesson 1 To discover what the children know about the internet. Lesson 2 To find out what a LAN and a WAN are. To find out how we access the internet in school.	Quizzing National Curriculum Strand Information Technology 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. Lesson 1 To make a picture quiz for young children. Lesson 2 and 3 To learn how to use the question types within 2Quiz. Lesson 4 To explore the grammar quizzes. Lesson 5 To make a quiz that requires the player to search a database. Lesson 6 To use their knowledge of quiz types to create a quiz show quiz based on a curriculum area.

To explore how 2Code can be used to make a text- based adventure game.	stop playing and the effect this has on their health. To identify the positive and negative influences of technology on health and the environment.		Lesson 3 To research and find out about the age of the internet. To think about what the future might hold.	