

Computing	National Curriculum Objective & Area of Study (incl. possible resources)		Year 1	Year 2		
Area						
Computer Science	Year 1 and 2 National Curriculum Objective Create and debug simple programs Use logical reasoning to predict the bel Year 1 Area of Study Giving and following instructions Year 2 Area of Study Predicting behaviour and using repeat command	es ·	Understand that computers have no intelligence and that computers can do nothing unless a program is executed. Explain why programs need to be written using a precise series of instructions Follow a set of instructions given to perform a specific given task. Develop own program by giving instructions to perform a specific given task. Debug instructions by changing them to solve any problems that occur. Predict what the outcome of a given set of instructions will be.	 Predict what is going to happen in a program. Import sprites/ backdrops/ sounds in Scratch. Create sprites/ backdrops/ sounds in Scratch. Use the repeat command within a series of instructions. Create conditions for actions by waiting for a user input using the 'if' and 'when' command. Edit and debug instructions. 		
Computer Science	Year 1 and 2 National Curriculum Objective Understand what algorithms are; how digital devices; and that programs executant unambiguous instructions Year 1 Area of Study Understanding algorithms and turtle control Year 2 Area of Study Using programs to recreate shapes	they are implemented as programs on	Recognises that all software executed on digital devices is programmed. Explain what an algorithm is and express simple algorithms using symbols. Program a Bee-bot to perform a specific given task. Program Daisy the Dino to perform a specific given task. Develop own task and give instructions to a Bee-bot/Daisy the Dino to complete it. Debug own instructions to solve any problems that occur. Develop own task and give instructions to a Bee-bot/Daisy the Dino to complete it. Debug own instructions to solve any problems that occur.	 Create a geometric shape using a geoboard/ Spirograph. Control the appearance of own shape by setting the colour, size and shape. Create a geometric shape using Kaleido free/ RotoDoodle apps. Create a sequence of instructions to generate simple geometric shapes (oblong/ square). Create a specific shape using a program (2go). Discuss how to improve/ change own sequence of commands. 		
Computer Science	Year 1 and 2 National Curriculum Objectives Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions Year 1 and 2 Area of Study Year 1 and 2 Possible Resources Scratch		 Looks: Add text strings, show and hide objects and chang Sound: Select sounds and control when they are heard, th Draw: Control when drawings appear and set the pen coli Events: Specify user inputs (such as clicks) to control ever Control: Specify the nature of events (such as a single ever 	Looks: Add text strings, show and hide objects and change the features of an object. Sound: Select sounds and control when they are heard, their duration and volume. Draw: Control when drawings appear and set the pen colour, size and shape. Events: Specify user inputs (such as clicks) to control events. Control: Specify the nature of events (such as a single event or a loop). Sensing: Create conditions for actions by waiting for a user input (such as responses to questions like: What is your name?). Variables and Lists: From Year 3 onwards.		



Computing	National Curricu	lum Objective &		Year 1		Year 2
Area	Area of Study (incl.	possible resources)				
Information Technology	Year 1 and 2 National Curriculum Objectives Use technology purposefully to create, organise, store, manipulate and retrieve digital content		 Use technology to generate ideas for own work. Word process short texts, rather than copying up written work, starting to use two hands when typing. Use various tools including brushes, pens, lines, fill, spra 	•	Create/ select a series of pictures. Use sound recorders, at and away from, a computer to capture and playback sound. Save, retrieve and edit sounds	
	Writing and illustrating a book	Stories.lgfl.net Popplet Paint BookCreator		 and stamps to illustrate own work. Use the spacebar, back space, enter, shift and arrow keys. Use save, retrieve, amend and print. Talk about own work and make changes to improve it. 		Garageband.
	Recording sound and creating music to accompany pictures	Paint GarageBand Photostory LGfL Audio Network Audacity Audionetworktv.lgfl.netMusictrax.lgfl.net				
Information Technology	Year 1 and 2 National Curriculum Objective Use technology purposefully to create digital content. Year 1 Area of Study Creating and understanding pictograms. Year 2 Area of Study Writing and filming a recipe.		•	Understand and explain how images give information. Use a simple table to record information in an area across the curriculum. Show information as a pictogram. Use a program to create a pictogram. Explain what a pictogram is showing. Create a set of questions and answers based on the pictogram made.	•	Write instructions for a healthy recipe. Film the instructions for a healthy recipe to create a cookery programme. Decide which clips to keep. Edit the clips to convey meaning. Add simple titles and credits. Select text and make simple changes including bold, italic and underlined.



National Curriculum Objective & Area of Study (incl. possible resources)			Year 1	Year 2		
Year 1 and 2 National Curriculum Objectives Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Year 1 Area of Study Year 1 Possible Resources		•	 and hyperlinks. Find information using the internet to illustrate a topic across the curriculum. 		ranked.	
creating a presentation based on current topic.	PowerpointLGfL GalleryLGfL Copyright Copywrongs	•	the curriculum beginning to understand about copyright restrictions. Include images and information in a presentation using Powerpoint.	•	Learn how to use Prezi. Create an online presentation Use own presentation to share what has been found out. Improve own presentation based on the feedback	
Creating online presentation about history of computing and development of world wide web.	Vear 2 Possible Resources LGfL History of Computing resources Simple.wikipedia.org Haiku Deck Online presentational tools e.g. Prezi, Empressr, Google docs, Zoho SlideRocket	•	Share presentation with class.		received.	
Year 1 and 2 National Curriculum Objectives Recognise common uses of information technology beyond school Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they		•	Make decisions about whether of not statements or images found on the internet are likely to be true. Understand that people interact with computers. Know common uses of information technology beyond the classroom.	•	Recognise that a range of digital devices can be considered a computer and use a range of input and output devices. Understand online risks and identify obviously false information in a variety of contexts. Discuss the age rules for sites and why they exist.	
Year 1 Area of Study Esafety Talking about the internet and what devices around us are connected to it	Year 1 Possible Resources Search engines Thinkuknow website - Lee and Kim		 Identify white thick do not. Identify what things count as personal information. Know what to do when concerned about content or being contacted and the need for keeping personal information private in order to stay safe online. 	•	Consider other people's feelings on the internet. Use Sid's Top Tips in order to stay safe online. Contribute to a class email and open and reply to an email as a class.	
Year 2 Area of Study Esafety Emailing as a class	Year 2 Possible Resources Email provider Thinkuknow website - Hector and his friends Usonline.lgfl.net					
	Area of Study (incl. Year 1 and 2 National Curriculum Objective Use technology purposefully to create, digital content. Year 1 Area of Study Finding images using the Web and creating a presentation based on current topic. Year 2 Area of Study Creating online presentation about history of computing and development of world wide web. Year 1 and 2 National Curriculum Objective Recognise common uses of informatio Use technology safely and respectfully identify where to go for help and supp Year 1 Area of Study Esafety Talking about the internet and what devices around us are connected to it Year 2 Area of Study Esafety Esafety	Area of Study (incl. possible resources) Year 1 and 2 National Curriculum Objectives Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Year 1 Area of Study Finding images using the Web and creating a presentation based on current topic. Year 2 Area of Study Creating online presentation about history of computing and development of world wide web. Year 1 and 2 National Curriculum Objectives Recognise common uses of information technology beyond school Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they Year 1 Area of Study Year 1 Possible Resources Search engines Thinkuknow website - Lee and Kim Year 2 Area of Study Year 2 Possible Resources Search engines Thinkuknow website - Hector and his friends	Area of Study (incl. possible resources) Year 1 and 2 National Curriculum Objectives Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Year 1 Area of Study Finding images using the Web and creating a presentation based on current topic. Year 2 Area of Study Creating online presentation about history of computing and development of world wide web. Simple. wikipedia.org Haiku Deck Online presentational tools e.g. Prezi, Empressr, Google docs, Zoho SlideRocket Year 1 and 2 National Curriculum Objectives Recognise common uses of information technology beyond school Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they Year 1 Area of Study Search engines Talking about the internet and what devices around us are connected to it Year 2 Area of Study Esafety Esafety Emailing as a class Thinkuknow website - Hector and his friends	Year 1 and 2 National Curriculum Objectives	Vear 1 and 2 National Curriculum Objectives	



EYFS Development Matters – Development Statements							
22-36 Months	30-50 Months	40-60 Months	Early Learning Goal				
 Seeks to acquire basic skills in turning on and operating some ICT equipment. Operates mechanical toys, e.g. turns the knob on a wind-up toy or pulls back on a friction car. 	 Knows how to operate simple equipment, e.g. turns on CD player and uses remote control. Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones. Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images. Knows that information can be retrieved from computers. 	 Completes a simple program on a computer. Uses ICT hardware to interact with age-appropriate computer software. 	Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.				