

Long Term Planning 2016-17

	FS2	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computer Science Coding	<p>All About Control Control toys and household replicas</p> <p>Introduction to BeeBots Forwards and Backwards Left and Right Turns Learning left and right</p> <p>Computer Stars Logging on and opening programs.</p>	<p>BeeBots Tinkering - Bee Bot Numerals Various curriculum linked BeeBot mats.</p> <p>Kodable Introduction to sequencing instructions on a screen.</p>	<p>Brilliant Beebots Curriculum relevant mats – designing algorithm before programming. Slalom problem solving</p> <p>Scratch Junior sequences repeats animated collage storytelling</p>	<p>Programming - Scratch introduction</p> <p>Sequence and Abstraction – Fossil formation animation</p> <p>Tinkering Background Change Single sprite animation Movement</p>	<p>Programming - Scratch Skills:</p> <ul style="list-style-type: none"> Looks blocks and things happening on a mouse click Modify code already given and design own costumes. Dressing Up Game Introduction to Loops – unplugged activities followed by music box. Action Planning – making their own game using skills already Using IF ELSE selection Maths Quiz Make a game where something happens if an object moves 	<p>Programming – Scratch</p> <p>Abstraction Solar System Animation</p> <p>Skills:</p> <ul style="list-style-type: none"> Using IF ELSE selection Maths Quiz Continuous Repeat loop, IF ELSE selection in a loop - Slug Trail IF ELSE selection, IF selection, selection with a loop Selection Investigation (sprite move around a series of coloured dots) Convert user input into a variable. Train Your Computer to do Maths <p>BROADCAST –</p>	<p>Scratch</p> <ul style="list-style-type: none"> Using IF ELSE selection Maths Quiz IF ELSE selection, IF selection, selection with a loop Selection Investigation (sprite move around a series of coloured dots) Unplugged loops activities. Repeat loops, variables in a loop, reporting a variable Counting Machine Creating a list to store information, accessing random items from a list Random Word or Sentence generator <p>Rules based</p>

					<p>outside the path. Continuous Repeat loop, IF ELSE selection in a loop - Slug Trail</p> <ul style="list-style-type: none"> IF ELSE selection, IF selection, selection with a loop Selection Investigation (sprite move around a series of coloured dots and different things happen on different dots) <p>BROADCAST – give simple exercise to get the idea of broadcast.</p>	<p>give simple exercise to get the idea of broadcast.</p>	<p>algorithm programming language – Kodu – DON'T DO THIS NEXT YEAR</p> <p>BROADCAST – give simple exercise to get the idea of broadcast.</p>
Computational Thinking	<p>Algorithms Following instructions</p> <p>Patterns Sorting objects – eg shoes</p>	<p>Algorithms Sequencing instructions</p> <p>Patterns Looking for patterns – sorting items.</p>	<p>Logic World Map logic activity</p> <p>Algorithms Ordering numbers to 100 (create the rule) Write algorithms for school life. Sharing Sweets</p>	<p>Logic Sudoku</p> <p>Algorithms Crazy Characters</p> <p>Decomposition Tut, Clap or Jive</p> <p>Sequence and Abstraction – Fossil formation animation</p>	<p>Logic Pizza Pickle on Scratch Water Cycle</p> <p>Algorithms, Pattern, Logic Drawings</p> <p>Decomposition Decomposing a Poem.</p>	<p>Pattern Reusing Recipes</p> <p>Decomposition Pattern Spotting Game with no rules (code studio)</p> <p>Abstraction Solar System Animation (see Scratch programming)</p>	<p>Abstraction Guess What!</p> <p>Algorithms, Logic, Pattern Number sequences</p>

				(see Scratch programming)			
Hardware		The main parts of a computer (monitor, keyboard etc) Input and Output	Craft Computer - what is inside a computer + Pages skills CPU, RAM, hard drive		What's Inside a Computer? Inside of a laptop and desktop and what all the different bits do. ThingLink	Nifty Networks what is a network, what is the internet.	Understanding Binary and how computers work - CSUnplugged activities
				Simulations - understanding how simulations are used - Colin's Coffee Cup, Alien Plants, Duck Creator			App Designers Website Designers – using HTML to design a simple website (probably better with google sites)
Information Technology	Mouse Experts - mouse skills	Cool Researchers - safesearch, Children's Encyclopedia Word – images of places.	Perfect Posters - Word inc font changing skills, WordArt, text boxes and clipart, inserting pictures from internet	Keyboard skills - correct positioning of fingers	Branching databases	Podcasts - listen to podcasts, use Audacity to create own, publish to school google site	Presenting with Prezi – link to Ancient Egyptians

	Keyboard Skills - find the keys, shift, full stop, space bar, enter Recognising capital letters on the keyboard	Keyboard Skills – keyboard familiarity games – Capital letters and full stops	Keyboard Skills Keyboard familiarisation	Digital Artists – RM colour magic - design costumes for their photos	Keyboard skills	Keyboard skills	Making a 3D Model - SketchUp, house
	Amazing Artists Mouse control and drawing.	Perfect Pictograms.	Let's Animate – Lego Movie Maker	Word processing skills - cut, copy, paste – text boxes and ordering pictures.	Super Spreadsheets – Excel Simple formulae	Excellent Excel More complex formulae and modelling	Excel - modelling
		Amazing Images (arranging photographs) - PicCollage?	PowerPoint skills (see Super Slideshows below)	Databases	Perfect Presentations - PowerPoint (hyperlinks)	Revision of PowerPoint and Keynote skills	Photo Editors - using Picasa to edit photos - sepia, colorise parts
		Let's Make a Card - Word	Pages skills (link with craft computer)	Do more with PowerPoint and Keynote.	Word processing skills - cut, copy, paste – text boxes and ordering pictures.	Website Designers - google sites	
					AppSmashing Book creator book about the Olympics using various apps in preparation for Year 5.		

Digital Literacy		Let's Be Safe - Hector's World, Chicken Clicking	Super Slideshows - Research Safe Search, Google (used at home)(internet safety), PowerPoint Dubai then and now.	Let's Be Safe - Captain Kara SMART rules – publisher or Word for posters	Let's Communicate Online - different ways of communicating online, Sunil's email, blogging, using a search engine effectively	Website Designers -	Using phones safely - difference between data and wifi, limiting use online.
			ThinkUKnow - Lee and Kim	email		Let's Communicate Online - revise ways of communicating online, sending emails safely, use of avatars instead of pictures, researching effectively, blog post	Let's Communicate - safety with photographs, Ali's online space, researching effectively. Red Riding Hood videos about social networking Internet safety - Jigsaw and discussion
							Website Designers - what evaluate websites