



Beacon Primary School Computing Long Term Plan 2019-20

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	<i>Design programs that accomplish specific goals.</i>	<i>Solve problems by decomposing them into smaller parts.</i>	<i>Select, use and combine software</i>	<i>Understand computer networks including the internet</i>	<i>Collaborate and use digital platforms safely and effectively</i>	<i>Select, use and combine software</i>
Year 1	<p><i>Understand how algorithms are implemented as programs on digital devices.</i></p> <p>Programming</p> <p><i>Switched on – We are treasure hunters</i></p> <p><i>Using programmable toys (Link to another subject e.g. maps - geography)</i></p> <p><i>Beebots/Beebots Online</i></p> <p><i>Digital Literacy</i></p>	<p><i>Understand steps in a program. Change a program to make it better. Use digital video. Transfer files.</i></p> <p>Computational thinking</p> <p><i>Switched on – We are TV Chefs</i></p> <p><i>Paint/Fresh Paint/Movie Maker/iMovie</i></p> <p><i>Digital Literacy</i></p>	<p><i>Illustrating an eBook</i></p> <p>creativity</p> <p><i>Switched on – We are painters</i></p> <p><i>Beebots/Beebots Online</i></p> <p><i>Tux Paint/Paint/2Paint A Picture/Fresh Paint/IWB software/Word</i></p> <p><i>Digital Literacy</i></p> <p><i>Christian values: Perseverance</i></p>	<p><i>Finding images using the web</i></p> <p>Computer networks</p> <p><i>Switched on – We are collectors</i></p> <p><i>Web browser/PowerPoint/IWB software/Explain Everything</i></p> <p><i>Digital Literacy</i></p> <p><i>Christian values: Justice</i></p>	<p><i>Producing a talking book</i></p> <p>Communication/collaboration</p> <p><i>Switched on – We are storytellers</i></p> <p><i>PowerPoint/2Create A Story/IWB software/Explain Everything</i></p> <p><i>Digital Literacy</i></p> <p><i>Christian values: Service</i></p>	<p><i>Creating a card electronically</i></p> <p>productivity</p> <p><i>Switched on – We are celebrating</i></p> <p><i>PowerPoint/Word/Clicker 7/Fresh Paint/2Paint A Picture</i></p> <p><i>Digital Literacy</i></p> <p><i>Christian values: Truthfulness</i></p>

	Christian values: Thankfulness	Christian values: Trust				
Year 2	<p>Programming on screen</p> <p>Programming</p> <p>Switched on – We are astronauts</p> <p>Scratch/Kodu/Scratch Jnr/Pyonkee</p> <p>Digital Literacy</p> <p>Christian values: Thankfulness</p>	<p>Exploring how computer games work</p> <p>Computational thinking</p> <p>Switched on – We are games testers</p> <p>Scratch/Screencast-O-Matic/Pyonkee</p> <p>Digital Literacy</p> <p>Christian values: Trust</p>	<p>Taking, selecting and editing digital images</p> <p>creativity</p> <p>Switched on – We are photographers</p> <p>Picasa/Pixlr.com/Snapseed</p> <p>Digital Literacy</p> <p>Christian values: Perseverance</p>	<p>Researching a topic</p> <p>Computer networks</p> <p>Switched on – We are researchers</p> <p>FreeMind/web browser/PowerPoint</p> <p>Digital Literacy</p> <p>Christian values: Justice</p>	<p>Communicating clues</p> <p>Communication/collaboration</p> <p>Switched on – We are detectives</p> <p>Email system/Excel/Google Sheets</p> <p>Digital Literacy</p> <p>Christian values: Service</p>	<p>Recording bug hunt data</p> <p>productivity</p> <p>Switched on – We are zoologists</p> <p>Excel/Google Sheets/Picasa/Photo Gallery/Snapseed/ Google Maps/Google Earth</p> <p>Digital Literacy</p> <p>Christian values: Truthfulness</p>
Year 3	<p>Programming an animation</p> <p>Programming</p> <p>Switched on – We are programmers</p>	<p>Finding and correcting bugs in programs</p> <p>Computational thinking</p> <p>Switched on – We are bug fixers</p>	<p>Videoing performance</p> <p>creativity</p> <p>Switched on – We are presenters</p> <p>Movie Maker/iMovie</p>	<p>Making and sharing a short screencast presentation</p> <p>Computer networks</p> <p>Switched on – We are vloggers</p>	<p>Communicating safely on the internet</p> <p>Communication and collaboration</p> <p>Switched on – We are communicators</p>	<p>Select, use and combine software to design a range of programs.</p> <p>Productivity</p> <p>Switched on – We are opinion pollsters</p>

	Scratch/Scratch Jr/Pyonkee Digital Literacy Christian values: Thankfulness	Scratch/Snap!/Pyonkee Christian values: Trust	Christian values: Perseverance	Google/PowerPoint/Quick Time Player/screencast-omatic/ Explain Everything/Adobe Voice Digital Literacy Christian values: Justice	Email system/Skype/Google Hangouts/PowerPoint/Google Slides Literacy Christian values: Service	Google Forms/j2Data/Google Sheets and Google Slides/InspireData/Excel/Word Christian values: Truthfulness
Year 4	Developing a simple educational game. Programming Switched on – We are software developers Scratch/Scratch Jr/Pyonkee Christian values: Thankfulness	Solve problems by decomposing them into smaller parts. Computational thinking Switched on – We are toy designers Scratch/Snap!/Pyonkee Christian values: Trust	Producing digital music Creativity Switched on – We are musicians Isle of Tune/Audacity/LMMS/GarageBand/MuseScore Christian values: Perseverance	Editing and writing HTML Computer networks Switched on – We are HTML editors Firefox/Chrome/Brackets Christian values: Justice	Producing a wiki Communication and collaboration Switched on – We are co-authors Learning platform/MediaWiki/Google Sites Christian values: Service	Presenting the weather Productivity Switched on – We are meteorologists Excel/google sheets/IWB software Christian values: Truthfulness
Year 5	Developing an interactive game	Cracking codes	Fusing geometry and art	Creating a web page about cyber safety	Sharing experiences and opinions	Creating a virtual space Productivity

	<p>Programming</p> <p><i>Switched on – We are game developers</i></p> <p>Scratch/Snap!/Pyonkee/Kodu</p> <p><i>Christian values: Thankfulness</i></p>	<p>Computational thinking</p> <p><i>Switched on – We are cryptographers</i></p> <p>Scratch/Snap!/Pyonkee/The Black Chamber</p> <p><i>Christian values: Trust</i></p>	<p>creativity</p> <p><i>Switched on – We are artists</i></p> <p>Inkscape/Adobe Illustrator/CorelDRAW/Scratch/Scribble/TurtleArt/Terragen</p> <p><i>Christian values: Perseverance</i></p>	<p>computer networks</p> <p><i>Switched on – We are web developers</i></p> <p>Google/Google Sites/learning platform/WordPress/Adobe Slate</p> <p><i>Christian values: Justice</i></p>	<p>Communication and collaboration</p> <p><i>Switched on – We are bloggers</i></p> <p>WordPress/learning platform/GIMP/Audacity/Movie Maker</p> <p>Literacy</p> <p><i>Christian values: Service</i></p>	<p><i>Switched on – We are architects</i></p> <p>Trimble SketchUp/Screencast-O-Matic</p> <p><i>Christian values: Truthfulness</i></p>
Year 6	<p><i>Making a text-based adventure game</i></p> <p>programming</p> <p><i>Switched on – We are adventure gamers</i></p> <p>Python (using the IDLE editor)/Trinket.io/Pythonista</p> <p><i>Christian values: Thankfulness</i></p>	<p><i>Mastering algorithms for searching, sorting and mathematics</i></p> <p>Computational thinking</p> <p><i>Switched on – We are computational thinkers</i></p> <p>‘Unplugged’ resources/Scratch/Snap!/Pyonkee</p>	<p><i>Creating a short television advert</i></p> <p>Creativity</p> <p><i>Switched on – We are advertisers</i></p> <p>MovieMaker/iMovie/clips</p> <p><i>Christian values: Perseverance</i></p>	<p><i>Exploring computer networks including the internet</i></p> <p>Computer networks</p> <p><i>Switched on – We are network technicians</i></p>	<p><i>Using media and mapping to document a trip</i></p> <p>Communication and collaboration</p> <p><i>Switched on – We are travel writers</i></p> <p>Google Maps/Google Earth/Pixlr/Snapseed/MovieMaker/</p>	<p><i>Creating a year book</i></p> <p>Productivity</p> <p><i>Switched on – We are publishers</i></p> <p>Publisher/Scribus/iBook Author/Pages/Book Creator/Google Drive</p> <p><i>Christian values: Truthfulness</i></p>

		Christian values: Trust		command prompt/Scratch/open visual traceroute Christian values: Justice	iMovie/Audacity/Garage Band/TrackRec Christian values: Service	
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Colour Code

Red – Unit focus– these are linked to the curriculum learning goals

Blue – Switched On unit that can help the children meet these skills

Black – Programs suggested to deliver unit content

Purple – Christian Value

As stated in our Computing SIP, over the course of the year we are going to review the Computing LTP. We will be using feedback from teachers to adjust the long-term plan and topics so it is suitable for the school. Amendments will be made to the LTP throughout the year.