



Bishop Martin/Beacon Primary School Computing Long Term Plan 2019-20

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Sequence instructions using programming toys e.g. Beebot or Codeapillar	Predict and program tasks with Beebot.	Use iPads for creative activities.	See how own progress is shared on Tapestry etc. – talk about sharing.	Age appropriate e-safety activities.	Use iPads to make a personal picture message.
Year 1	<p><i>Understand how algorithms are implemented as programs on digital devices.</i></p> <p><b>Programming</b></p> <p><i>Switched on – We are treasure hunters</i></p> <p>Using programmable toys (Link to another subject e.g. maps - geography)</p> <p>Beebots/Beebots Online</p> <p>Digital Literacy</p> <p>Christian values: Thankfulness</p>	<p><i>Understand steps in a program. Change a program to make it better. Use digital video. Transfer files.</i></p> <p><b>Computational thinking</b></p> <p><i>Switched on – We are TV Chefs</i></p> <p>Paint/Fresh Paint/Movie Maker/iMovie</p> <p>Digital Literacy</p> <p>Christian values: Trust</p>	<p><i>Illustrating an eBook</i></p> <p><b>creativity</b></p> <p><i>Switched on – We are painters</i></p> <p>Beebots/Beebots Online</p> <p>Tux Paint/Paint/2Paint A Picture/Fresh Paint/IWB software/Word</p> <p>Digital Literacy</p> <p>Christian values: Perseverance</p>	<p><i>Finding images using the web</i></p> <p><b>Computer networks</b></p> <p><i>Switched on – We are collectors</i></p> <p>Web browser/PowerPoint/IWB software/Explain Everything</p> <p>Digital Literacy</p> <p>Christian values: Justice</p>	<p><i>Producing a talking book</i></p> <p><b>Communication/collaboration</b></p> <p><i>Switched on – We are storytellers</i></p> <p>PowerPoint/2Create A Story/IWB software/Explain Everything</p> <p>Digital Literacy</p> <p>Christian values: Service</p>	<p><i>Creating a card electronically</i></p> <p><b>productivity</b></p> <p><i>Switched on – We are celebrating</i></p> <p>PowerPoint/Word/Clicker 7/Fresh Paint/2Paint A Picture</p> <p>Digital Literacy</p> <p>Christian values: Truthfulness</p>



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



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



	<p><b>Programming</b></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><b>Computational thinking</b></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><b>creativity</b></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><b>computer networks</b></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><b>Communication and collaboration</b></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><b>programming</b></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><b>Computational thinking</b></p> <p><i>Switched on – We are computational thinkers</i></p>	<p><i>Creating a short television advert</i></p> <p><b>Creativity</b></p> <p><i>Switched on – We are advertisers</i></p> <p>MovieMaker/iMovie/clips</p>	<p><i>Exploring computer networks including the internet</i></p> <p><b>Computer networks</b></p> <p><i>Switched on – We are network technicians</i></p>	<p><i>Using media and mapping to document a trip</i></p> <p><b>Communication and collaboration</b></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><b>Productivity</b></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>



		'Unplugged' resources/Scratch/Snap!/Pyonkee  Christian values: Trust	Christian values: Perseverance	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.*