Computing Curriculum Coverage – Switched on Computing

EYFS

	0-3 Preschool	3-4 EYFS 1	Reception EYFS 2	Links to KS1 Curriculum
EYFS area of Learning	Understanding the World			
Fundamental Knowledge	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.	Investigate a simple program on a computer. Use ICT hardware to interact with age appropriate computer software.	Use a simple program on a device for a purpose. Recognise and select technology for a particular purpose.	Create and debug simple programs using logical reasoning to predict the behaviour of simple programs. Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Use technology safely and respectively, 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 technology.
Early Learning Goal	There are no early learning goals that directly relate to computing objectives, though it is still expected that children will be introduced to appropriate technology and use it within their provision.			

Year 1 Long Term Curriculum Overview

Unit / Title	Focus	Main Hardware / Software	Alternative Hardware / Software	National Curriculum Coverage
Unit 1.1 We are Treasure Hunters	Solving problems using programmable toys	Blue-Bot	Other programmable toys	Computer Science: Coding
Unit 1.2 We are TV Chefs	Filming the steps of a recipe	iPad – iMovie	Digital cameras WeVideo Vimeo Microsoft Photos	Computer Science: Computational thinking
Unit 1.3 We are Digital Artists	Creating work inspired by great artists	iPad Brushes Redux Autodesk Sketchbook	Microsoft Paint / Paint 3D	Information Technology: Creativity
Unit 1.4 We are Publishers	Creating a multimedia eBook about our achievements	iPad Book Creator	eBook maker Google Slides Microsoft PowerPoint	Digital Literacy: Online Safety
Unit 1.5 We are Rhythmic	Creating sound patterns in Scratch Junior and GarageBand	iPad GarageBand Scratch Junior	Audacity	Information Technology: Media
Unit 1.6 We are Detectives	Using data to solve clues	Popplet Google Forms Google Sheets	Bubbl.us MindMeister Freemind	Information Technology: Data

Year 2 Long Term Curriculum Overview

Unit / Title	Focus	Main Hardware / Software	Alternative Hardware / Software	National Curriculum Coverage
Unit 2.1 We are Astronauts	Programming on screen in Scratch Junior	iPad Scratch Junior	Bee-Bot or Blue-Bot	Computer Science: Coding
Unit 2.2 We are Game Testers	Working out the rules for games	iPad Scratch FixTheFactory	LightBot Code Hour	Computer Science: Computational thinking
Unit 2.3 We are Photographers	Taking, selecting and editing digital images	Snapseed	Pixlr	Information Technology: Media
Unit 2.4 We are Safe Researchers	Researching a topic	Popplet Google Slides	FreeMind Microsoft PowerPoint Keynote	Digital Literacy: Online Safety
Unit 2.5 We are Animators	Creating a stop-motion animation	Stop Motion Studio	iStopMotion Zu3D Stop Motion Animator	Information Technology: Media
Unit 2.6 We are Zoologists	Collecting data about bugs	Google My Maps Google Docs / Sheets / Slides	Windows Maps	Information Technology: Data

Year 3 Long Term Curriculum Overview

Unit / Title	Focus	Main Hardware / Software	Alternative Hardware / Software	National Curriculum Coverage
Unit 3.1 We are Programmers	Programming an animation	Scratch	Scratch Junior	Computer Science: Coding
Unit 3.2 We are Bug Fixers	Finding and correcting Bugs	Scratch Screen Recorder Software	Snap!	Computer Science: Computational thinking
Unit 3.3 We are Presenters	Videoing a presentation against a green screen	Green Screen background Popplet iMovie	Microsoft Photos	Information Technology: Media
Unit 3.4 We are Who we Are	Creating a range of media about ourselves	Google Docs GarageBand iMovie	Microsoft Word Microsoft PowerPoint	Digital Literacy: Online Safety
Unit 3.5 We are Co-Authors	Producing a wiki	Google Sites Popplet	iPads	Information Technology: Media
Unit 3.6 We are Opinion Pollsters	Collecting and analysing data	Google Forms Google Slides Google Drive	Numbers	Information Technology: Data

Year 4 Long Term Curriculum Overview

Unit / Title	Focus	Main Hardware / Software	Alternative Hardware / Software	National Curriculum Coverage
Unit 4.1 We are Software Developers	Developing a simple educational game	Scratch	Snap! Pyonkee	Computer Science: Coding
Unit 4.2 We are Makers	Coding for micro:bit	micro:bit Microsoft MakeCode	Crumble	Computer Science: Coding
Unit 4.3 We are Musicians	Creating a piece of music in GarageBand	GarageBand	LMMS	Information Technology: Media
Unit 4.4 We are Bloggers	Sharing experiences and opinions	WordPress or Blogger	Audio recorders or tablets	Digital Literacy: Online Safety
Unit 4.5 We are Artists	Fusing geometry and art	Scratch Inkscape Terragen	Pyonkee Snap!	Computer Science: Coding
Unit 4.6 We are Meteorologists	Recording and presenting the weather	Microsoft Excel Microsoft PowerPoint Keynote	Google suite	Information Technology: Data

Year 5 Long Term Curriculum Overview

Unit / Title	Focus	Main Hardware / Software	Alternative Hardware / Software	National Curriculum Coverage
Unit 5.1 We are Game Developers	Developing an interactive game	Scratch	Snap! Pyonkee Kodu	Computer Science: Coding
Unit 5.2 We are Cryptographers	Cracking codes	Scratch Laptops	Snap! Pyonkee	Computer Science: Computational thinking
Unit 5.3 We are Architects	Creating a virtual space	Trimble SketchUp Screencast-o-matic	Minecraft Home Design D 3dVAS SketchUp viewer	Information Technology: Media
Unit 5.4 We are Web Developers	Making sense of the Internet and building a website	Laptop Google Chrome	Other browsers	Digital Literacy: Online Safety
Unit 5.5 We are Adventure Gamers	Creating an interactive, multimedia adventure	Google Slides Voice recorder	Microsoft PowerPoint	Information Technology: Media
Unit 5.6 We are VR Designers	Learning about virtual reality	Google Cardboard Google Street View GarageBand CoSpaces	Google Maps Beetle Blocks	Information Technology: Media

Year 6 Long Term Curriculum Overview

Unit / Title	Focus	Main Hardware / Software	Alternative Hardware / Software	National Curriculum Coverage
Unit 6.1 We are Toy Makers	Coding using micro:bit	Laptops Micro:bit Microsoft MakeCode	Crumble	Computer Science: Coding
Unit 6.2 We are Computational Thinkers	Algorithms	Scratch Laptops	Snap! Pyonkee	Computer Science: Computational thinking
Unit 6.3 We are Publishers	Creating a yearbook	Laptop Google Docs	Book Creator Microsoft Word	Information Technology: Media
Unit 6.4 We are Connected	Social media	Laptop Digital camera WordPress or Blogger	Audio recorders	Digital Literacy: Online Safety
Unit 6.5 We are Advertisers	Making a short TV advert	iPad iMovie	Green Screen	Information Technology: Media
Unit 6.6 We are AI Developers	Learning about machine learning	Scratch MachineLearningForKids	eCraft2Learn	Computer Science: Coding