

Curriculum Overview

Subject: Computing

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	<p>Theme: Ourselves</p> <p>Unit Title: Exchanging and Sharing Information</p> <p>Unit Summary: Text processing and multimedia</p> <p>Computing Programme of Study focus: Computing</p> <p>Software: 2Create and 2Publish</p>	<p>Theme: Celebrations</p> <p>Unit Title: Sound and Music</p> <p>Unit Summary: Learning that technological devices can be used to record and play back sounds.</p> <p>Computing Programme of Study focus: Communication</p> <p>Hardware: Microphones Software: 2Simple Music Toolkit and Espresso</p>	<p>Theme: Transport</p> <p>Unit Title: Data Handling</p> <p>Unit Summary: Learning that there is a relationship between graphical representation and real data.</p> <p>Computing Programme of Study focus: Computational thinking</p> <p>Software: 2count and 2 graph</p>	<p>Theme: Fantasy</p> <p>Unit Title: Logo and control</p> <p>Unit Summary: Using programmable toys to support their learning.</p> <p>Computing Programme of Study focus: Programming</p> <p>Hardware: BeeBots, ProBots and Roamer</p>	<p>Theme: Growth and Living Things</p> <p>Unit Title: Digital Imagery</p> <p>Unit Summary: Take and use digital pictures and use simple tools in a painting program.</p> <p>Computing Programme of Study focus: Creativity</p> <p>Software: 2Paint and 2Animate Hardware: Cameras and I-pads</p>	<p>Theme: Dinosaurs</p> <p>Unit Title: Research</p> <p>Unit Summary: use a simple search engine to find information and pictures.</p> <p>Computing Programme of Study focus: Communication</p> <p>Software: Kiddle (Child friendly search engine)</p>
Year 1	<p>Theme: Ourselves and Around the World</p> <p>Unit Title: Painting</p> <p>Unit Summary: Learning basic painting skills for painting applications on a computer or tablet device</p> <p>Computing Programme of Study focus: Creativity</p> <p>Software: Simple painting application</p>	<p>Theme: Out of this World</p> <p>Unit Title: Computer Skills</p> <p>Unit Summary: Learning basic computer skills that they need to be able to laptop computers.</p> <p>Computing Programme of Study focus: Computational thinking</p> <p>Software: Desktop Software</p>	<p>Theme: A Knight's Tale/Castles</p> <p>Unit Title: Word Processing Skills</p> <p>Unit Summary: Learning basic typing and word processing skills.</p> <p>Computing Programme of Study focus: Communication</p> <p>Software: Microsoft Word</p>	<p>Theme: Toy Story</p> <p>Unit Title: Programming Toys</p> <p>Unit Summary: Learning how to program moveable robots and how to record the movements.</p> <p>Computing Programme of Study focus: Programming</p> <p>Hardware: Beebots and Probots.</p>	<p>Theme: The Enchanted Forest</p> <p>Unit Title: Programming with ScratchJr</p> <p>Unit Summary: Introduces children to the principles of coding.</p> <p>Computing Programme of Study focus: Programming</p> <p>Software: ScratchJr</p>	<p>Theme: Shiver Me Timbers</p> <p>Unit Title: Using and Applying</p> <p>Unit Summary: Reinforces skills taught through-out the year.</p> <p>Computing Programme of Study focus: Computing Key Skills</p> <p>Software: Microsoft Word, Microsoft Paint and ScratchJr</p>
Year 2	<p>Theme: Animal Kingdom</p> <p>Unit Title: Preparing for Turtle Logo</p> <p>Unit Summary: Children will create, test and debug simple algorithms.</p> <p>Computing Programme of Study focus: Computational thinking</p> <p>Software: Turtle Logo</p>	<p>Theme: Fire! Fire!</p> <p>Unit Title: Programming Turtle Logo and Scratch</p> <p>Unit Summary: Children will use basic commands in Logo to move and draw using the turtle on screen</p> <p>Computing Programme of Study focus: Programming</p> <p>Software: Turtle Logo</p>	<p>Theme: There's no place like home</p> <p>Unit Title: Computer Art</p> <p>Unit Summary: Reproducing artistic styles on the computer.</p> <p>Computing Programme of Study focus: Creativity</p> <p>Software: Windows Paint</p>	<p>Theme: Chocolate</p> <p>Unit Title: Presentation Skills</p> <p>Unit Summary: Learning important computer skills needed for safe and effective computer use.</p> <p>Computing Programme of Study focus: Computer networks</p> <p>Software: Microsoft PowerPoint</p>	<p>Theme: It's a small world</p> <p>Unit Title: Using the Internet</p> <p>Unit Summary: Introduces children to using the internet safely and with a purpose.</p> <p>Computing Programme of Study focus: Communication</p> <p>Software: Internet Explorer</p>	<p>Theme: London Calling</p> <p>Unit Title: Using and Applying</p> <p>Unit Summary: Reinforces skills taught through-out the year.</p> <p>Computing Programme of Study focus: Computing Key Skills</p> <p>Software: Microsoft Paint, Microsoft Word and ScratchJr</p>

Year 3	<p>Theme: Rainforest Rescue</p> <p>Unit Title: We are programmers</p> <p>Unit Summary: Programming an animation</p> <p>Computing Programme of Study focus: Programming</p> <p>Software: Scratch</p>	<p>Theme: The Stone Age</p> <p>Unit Title: We are bug fixers</p> <p>Unit Summary: Finding and correcting bugs in programs</p> <p>Computing Programme of Study focus: Computational thinking</p> <p>Software: Scratch</p>	<p>Theme: Food Glorious Food</p> <p>Unit Title: We are presenters</p> <p>Unit Summary: Videoing performance</p> <p>Computing Programme of Study focus: Creativity</p> <p>Software: iMovie</p>	<p>Theme: Egyptology</p> <p>Unit Title: We are vloggers</p> <p>Unit Summary: Making and sharing a short screencast presentation</p> <p>Computing Programme of Study focus: Computer networks</p> <p>Software: PowerPoint and Quick Time Player</p>	<p>Theme: Rise of the Robots</p> <p>Unit Title: We are communicators</p> <p>Unit Summary: Communicating safely on the internet</p> <p>Computing Programme of Study focus: Communication</p> <p>Software: Email System - PurpleMash</p>	<p>Theme: Spy Kids</p> <p>Unit Title: We are opinion pollsters</p> <p>Unit Summary: Collecting and analysing data</p> <p>Computing Programme of Study focus: Productivity</p> <p>Software: Google Sheets</p>
Year 4	<p>Theme: Hail Cesar</p> <p>Unit Title: We are software designers</p> <p>Unit Summary: Developing a simple educational game</p> <p>Computing Programme of Study focus: Programming</p> <p>Software: Scratch</p>	<p>Theme: Chembakolli</p> <p>Unit Title: We are toy designers</p> <p>Unit Summary: Prototyping an interactive toy</p> <p>Computing Programme of Study focus: Computational thinking</p> <p>Software: Scratch</p>	<p>Theme: Follow the Yellow Brick Road</p> <p>Unit Title: We are musicians</p> <p>Unit Summary: Producing digital music</p> <p>Computing Programme of Study focus: Creativity</p> <p>Software: Isle of Tune and Audacity</p>	<p>Theme: Terrible Tudors</p> <p>Unit Title: We are HTML editors</p> <p>Unit Summary: Editing and writing HTML</p> <p>Computing Programme of Study focus: Computer networks</p> <p>Software: Chrome and Brackets</p>	<p>Theme: Save the Planet</p> <p>Unit Title: We are co-authors</p> <p>Unit Summary: Producing a wiki</p> <p>Computing Programme of Study focus: Communication</p> <p>Software: MediaWiki and Google Sites</p>	<p>Theme: How does your garden grow?</p> <p>Unit Title: We are meteorologists</p> <p>Unit Summary: Presenting the weather</p> <p>Computing Programme of Study focus: Productivity</p> <p>Software: Google Sheets and PowerPoints</p>
Year 5	<p>Theme: Long Live the Queen</p> <p>Unit Title: We are game developers</p> <p>Unit Summary: Developing an interactive game</p> <p>Computing Programme of Study focus: Programming</p> <p>Software: Scratch</p>	<p>Theme: Masterchef</p> <p>Unit Title: We are cryptographers</p> <p>Unit Summary: Cracking codes</p> <p>Computing Programme of Study focus: Computational thinking</p> <p>Software: Scratch</p>	<p>Theme: Mad Mixtures</p> <p>Unit Title: We are artists</p> <p>Unit Summary: Fusing geometry and art</p> <p>Computing Programme of Study focus: Creativity</p> <p>Software: Inkscape and Adobe Illustrator</p>	<p>Theme: Heartbeat</p> <p>Unit Title: Editing and writing HTML</p> <p>Unit Summary: Computer networks</p> <p>Computing Programme of Study focus: Computer networks</p> <p>Software: Google Sites</p>	<p>Theme: Creeping Coasts</p> <p>Unit Title: We are bloggers</p> <p>Unit Summary: Sharing experiences and opinions</p> <p>Computing Programme of Study focus: Communication</p> <p>Software: WordPress</p>	<p>Theme: Ancient Greeks</p> <p>Unit Title: We are architects</p> <p>Unit Summary: Creating a virtual space</p> <p>Computing Programme of Study focus: Productivity</p> <p>Software: Trimble SketchUp</p>
Year 6	<p>Theme: Tales of Thames</p> <p>Unit Title: We are adventure gamers</p> <p>Unit Summary: Making a text-based adventure game</p> <p>Computing Programme of Study focus: programming</p> <p>Software: Python (IDLE editor)</p>	<p>Theme: To infinity and Beyond</p> <p>Unit Title: We are computational thinkers</p> <p>Unit Summary: Mastering algorithms for searching</p> <p>Computing Programme of Study focus: Computational thinking</p> <p>Software: 'Unplugged' resources and Scratch</p>	<p>Theme: Your Country Needs You</p> <p>Unit Title: We are travel writers</p> <p>Unit Summary: Using media and mapping to document a trip</p> <p>Computing Programme of Study focus: Productivity</p> <p>Software: Google Maps, Google Earth and iMovie</p>	<p>Theme: To Boldly Go</p> <p>Unit Title: We are network engineers</p> <p>Unit Summary: Exploring computer networks including the internet</p> <p>Computing Programme of Study focus: Computer networks</p> <p>Software: Command Prompt and Scratch</p>	<p>Theme: Lights, Camera, Action</p> <p>Unit Title: We are advertisers</p> <p>Unit Summary: Creating a short television advert</p> <p>Computing Programme of Study focus: Creativity</p> <p>Software: MovieMaker and iMovie</p>	<p>Theme: Back to the Future</p> <p>Unit Title: We are publishers</p> <p>Unit Summary: Creating a year book</p> <p>Computing Programme of Study focus: Communication</p> <p>Software: Publisher/ Book Vreator and Google Drive</p>