



Foxyards Academy - Computing Long-Term Plan for progression

	Autumn	Spring	Summer
Nursery	<p>Computational Language (Ongoing) Using language to ask, explain, describe, share ideas</p> <p>Online Safety - Smartie the Penguin (1 lesson) Pop ups and in app purchases</p>	<p>Tinkering (5 lessons) Unit 3 Deconstruction of technology using screwdrivers, nuts/bolts, etc. Tinker trays.</p> <p>Online Safety - Smartie the Penguin (1 lesson) Inappropriate websites</p>	<p>Algorithms (5 lessons) Unit 2 Giving teachers instructions to make a 'Jam Sandwich'/'Brush Teeth'</p> <p>Online Safety - Smartie the Penguin (1 lesson) Cyberbullying</p>
Reception	<p>Algorithms (5 lessons) Unit 4 Programming Bee Bots</p> <p>Online Safety - Smartie the Penguin (1 lesson) Upsetting images</p>	<p>Patterns (5 lessons) Unit 5 Sort and categorise data, using branching databases and pictograms</p> <p>Online Safety - Smartie the Penguin (1 lesson) Unreliable information</p>	<p>Using a computer (5 lessons) Unit 1 Main parts of a computer and how to use the keyboard and mouse</p> <p>Online Safety - Smartie the Penguin (1 lesson) Talking to strangers online</p>
KS1 – Cycle A (Yr2)	<p>What is a computer? <i>Input/outputs. Wider worlds use.</i></p> <p>Word Processing</p>	<p>Programming: ScratchJr</p> <p>Algorithms and debugging <i>introduction to loops.</i></p>	<p>Stop Motion</p> <p>International Space Station <i>data and its uses.</i></p>
KS1 – Cycle B (Yr1)	<p>Getting Started – Creating digital art inspired by Kandinsky <i>Login, navigating a computer, mouse, drag/drop, cursor control.</i></p> <p>Online safety – <i>staying safe and managing feelings and emotions online.</i></p>	<p>Programming – Bee:Bot</p> <p>Programming – Unplugged <i>Understanding algorithms, decomposition and debugging.</i></p>	<p>Digital imagery – <i>Miniature adventure story developing photography skills.</i></p> <p>Introduction to data -</p>
LKS2 – Cycle A (Yr4)	<p>Email (Teams) - <i>writing for the online world.</i></p> <p>Coding with Scratch - <i>variables</i></p>	<p>Investigating weather - <i>data using spreadsheets including some green screen.</i></p> <p>Website design – <i>HTML?? (to follow up)</i></p>	<p>Collaborative learning – <i>Google (TEAMS?) - Earlier in year?</i></p> <p>Computational thinking</p>
LKS2 – Cycle B (Yr3)	<p>Networks and the internet</p> <p>Email (Teams) - <i>writing for the online world.</i></p>	<p>Programming: Scratch</p> <p>Journey inside a computer</p>	<p>Digital Filming and editing – <i>book trailers</i></p> <p>Top Trump Databases</p>
UKS2 – Cycle A (Yr6)	<p>Email (Teams) - <i>writing for the online world.</i></p> <p>Bletchley Park – <i>code breaking/password hacking</i></p>	<p>Bletchley Park – <i>WWII and first computers</i></p> <p>Intro to Python - <i>programming</i></p>	<p>Big Data - <i>barcodes, QR codes, RFID</i></p> <p>Skills Showcase – <i>Digital Media</i></p>
UKS2 – Cycle B	<p>Micro:bit – <i>meaning and purpose of programming</i></p> <p>Email (Teams) - <i>writing for the online world.</i></p>	<p>Programming Music</p> <p>Stop Motion animation</p>	<p>Search Engines – <i>research skills</i></p> <p>Mars Rover – <i>3D Design Skills</i></p>

