

ICT Curriculum Map - 2021-22

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
5	<p>Admin Storing and Retrieving Data on MBMS network Formatting Text/Graphics, Intro to Google Apps E-safety: SMART/Netiquette Baseline test</p>	<p>Collaboration Cloud computing Programming Game Design using coding blocks Scratch Presenting Information 2d Graphic Design</p>	<p>Modelling & Simulations Create a spreadsheet model to solve real life problems Presenting Information Presenting data in charts and line graphs</p>	<p>Data Handling Interpreting Primary/Secondary Data Control Programming Algorithms Physical Systems Flowcharts</p>	<p>Control Programming Lego WeDo-Microbits Computer Hardware Understanding functions of computer components</p>	<p>Manipulating Sound and Digital Images Editing, images digital, sounds and music Code Combat Introduction to textual coding language functions</p>
6	<p>Digital Citizens E-safety Revision Reliable Internet searches Collaboration Cloud computing research and Online Surveys</p>	<p>Understanding Computers How the Internet works cloud computing. Presenting Information 2d and 3d graphic design</p>	<p>Modelling Create and design a spreadsheet to solve a specific problem with different variations to support enterprise</p>	<p>Data Handling -collect present primary and secondary data in tables, charts and graphs</p>	<p>Physical Computing Crumble design, write and debug programs that control or simulate physical systems Robotics Lego Mindstorm NXT</p>	<p>Manipulating Sound and Digital Images Recording, editing, creating sounds and music digitally Digital art - Creating and formatting images Digital Art sculpture</p>
7	<p>Digital Citizens E-safety Revision Presenting Information Modelling & Simulations Use of complex formulas/ functions (Interactive Quiz)</p>	<p>Understanding Computers Introduction to binary Converting Denary–Binary. ASCII Programming Block coding E Safety quizzes using Scratch</p>	<p>Programming Converting block coding to Pseudocode Python Introduction to textual coding language using variables</p>	<p>Modelling Testing Hypothesis Model to solve a specific problem to support enterprise Data and Representation Data Representation as binary including text/graphics/sound</p>	<p>Physical Computing Introduction to Raspberry Pi's -crumble light shows design, write and debug programs that control or simulating physical system</p>	<p>End of year Project Reflect on their use of ICT Design and produce promotion materials for a Housing Estate</p>
8	<p>Digital Citizens Google Sites on social networking Understanding Computers Describe the stages of fetch execute cycle. Functions of computer hardware/software. Network Topology</p>	<p>HTML Coding /CSS Web Design on topic of E safety App Design Design an APP, or game or animation. Careers Activities</p>	<p>Programming Python Write programs using variables, operators, loops Control Computing: Design solutions to problems by composition and creating sub-solutions.</p>	<p>Modelling Testing Hypothesis cell referencing, making predictions, data analysis Evaluate what kinds of problems can be solved using modelling Physical Computing Raspberry PI</p>	<p>.Digital Citizens Google Sites creating eportfolios Computing in the Wider Context - Careers Graphics AND DESIGN Review a range of existing promotional products.</p>	<p>End of year Project Reflect on their use of ICT Design and produce promotion materials for a Music Festival</p>

