



Curriculum Outline 2017-18: ICT/COMPUTING

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
5	Admin Storing and Retrieving Data on MBMS network Formatting Text/Graphics E-safety Using cloud computing Intro to mbms.org.uk	Control, programming Gaming using coding blocks Scratch programming Collaboration and Presentation	Data Representation Simulations and modelling Create and design a spreadsheet to solve a problems for costings	Presenting Information 2d Graphic Design Control Programming Lego WeDo	Control Programming Flowol Computational Thinking Understanding computer networks including the internet	Manipulating Sound and Digital Images Recording, editing, creating sounds and music digitally
6	Collaboration and Presentation Cloud computing E-safety Revision Collaboration research and Online Surveys	Understanding Computers- understanding of the theory of computer Presenting Information Using Google Sites	Modelling Create and design a spreadsheet to solve a specific problem with different variations to support enterprise	Presenting Information conventions and formats 2d and 3d Graphic Design	Raspberry Pi design, write and debug programs that control or simulating physical systems	Robotics Lego Mindstorm NXT Digital art - Creating and formatting images Digital Art sculpture
7	Modelling & Simulations Use of complex formulas (If Function-Conditional Formatting- Countif) functions to create an Interactive Quiz	Understanding Computers Introduction to binary Programming, using coding blocks E Safety Scratch quiz using Boolean Logic	Modelling Testing Hypothesis Create and design a model to solve a specific problem for costing with different variations to support enterprise	Data and Representation Explain Data Representation as binary images	Raspberry Pi's design, write and debug programs that control or simulating physical systems	Code Combat Introduction to textual coding language functions Code Academy Python
8	Understanding Computers The basic functions of computer components Collaboration App Design Design an APP, or game or animation	Python Coding Write basic programs using a textual coding language Presenting Information Creating an Online Portfolio of work	HTML/CSS Coding Web Design Creating a Website about Safe Social Networking	Data and Representation Collaboration docs - prezl on topic of ICT in Society Understanding Computers How Networks and servers work How the Internet works-	Modelling Testing Hypothesis cell referencing, making predictions, data analysis Evaluate what kinds of problems can be solved using modelling	Computing in the Wider Context Reflect on their own and others use of ICT adopting safe, and responsible practice Digital Content Review a range of existing promotional products