Marden Bridge Middle School

Believe, achieve, succeed.

Curriculum Outline 2015-16: ICT

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 **Presenting Information** 2d Graphic Design	**Control Programming** Lego WeDo	**Data Handling** Simulations and modelling Create and design a spreadsheet to solve a problems for costings -	**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	**Presenting Information** conventions and formats 2d and 3d Graphic Design	**Modelling** Create and design a spread sheet to solve a specific problem with different variations to support enterprise	**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	**Inside the internet -** understanding of the theory of computer
7	**Modelling &Simulations** Use of complex formulas (If Function-Conditional Formatting- Countif) functions to create an Interactive Quiz	**Programming, using coding blocks** E Safety Scratch quiz using Boolean Logic **Understanding Computers** Introduction to binary	**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 including Monochrome BMP 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	**HTML Coding** Web Design	**Collaboration** **App Design** Design an APP, or game or animation	**Python Coding** Write basic programs using a textual coding language	**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 **Basic graphics** Review a range of existing promotional products
	Computer Language Converting Denary–Binary. ASCII Code	**Understanding Computers** How the Internet works-cloud computing				