

## CURRICULUM OVERVIEW FOR YEAR 7 - COMPUTING

Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	<b>Core Skills</b>	<b>Algorithm Design/Problem Solving</b>	<b>Block based programming</b>	<b>Basic Spreadsheets and Graphs</b>	<b>Binary Information</b>	<b>Networks and Basic Computer Systems</b>
Knowledge	Password security File management Keyboard layout	How to sequence instruction effectively How more than one solution can exist to a problem	Basic programming concepts	Simple Excel formulae Graph types and their use	Binary number system Text and image representation Simple logic gates	Adv/Disadv of using a network Star and Bus Network Input Output Storage Devices
Skills	How to use features of the school network, and specific software Use of tools such as snipping tool, header and footer	Independent solving of simple “puzzles”, construction of simple flow diagrams in control software	Creating simple programs using Scratch	Use of basic formulae Simple graph creation	Converting between binary and denary (decimal)	Identifying device types Identifying and drawing simple network structures
Key Marked Piece (Summative Assessments in bold)	End of Unit Assessment Sheet reviewing evidence produced during the unit	End of Unit Assessment Sheet reviewing evidence produced during the unit	End of Unit Assessment Sheet reviewing evidence produced during the unit	End of Unit Assessment Sheet reviewing evidence produced during the unit  <b>Mid Year Exam on all topics to date</b>  <b>50% written, 50% electronic (multiple choice)</b>	End of Unit Assessment Sheet reviewing evidence produced during the unit	End of Unit Assessment Sheet reviewing evidence produced during the unit  <b>End of Year Exam on all year 7 topics</b>  <b>50% written, 50% electronic (multiple choice)</b>
Vocabulary	Unique, unauthorised, browse, navigate, navigation tree, program, app, right click, left click, header, footer, default	Algorithm, solution, flow diagram, pseudocode	Sprite, co-ordinates, if, else, else if, repeat/until	Cell, reference, fill handle, replicate, formulae, autosum, average, Axes	Binary, denary, conversion, powers, ASCII And, Or, Not	Topology, Input, Output, Storage