

Computing Year 8	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic/Unit to be studied	Fair Cop	Binary and Logic Gates	Small Basic	Technology and Computing Standards	Representation of Data	Representation of Data
Subject Content Outline	Students look at creating relational databases and using advanced queries	Students will learn the reasons for the use of binary and how logic works within programming.	Students learn how to program using the language Small Basic. Students learn how to use variables, if statements and loops in their programs. Students understand how to create and read basic algorithms	Students learn about hardware, software , cloud computing, Standards used in the development of computing and the history of computing	Students will learn how data is stored by computers using binary	Students will learn how data is stored by computers using binary
Aims/Assessment Objectives	Be able to create tables in databases and understand validation and data types. Be able to create relational tables. be able to create appropriate queries Be able to create appropriate reports with the results of queries.	Be able to understand and produce simple logic diagrams using the operations NOT, AND and OR Be able to produce a truth table from a given logic diagram.	To understand how and when to apply programming skills appropriately to complete set tasks. To be able to interpret and create basic algorithms	Be able to identify different categories of hardware and software and be able to identify key points in the development of computing	Be able to explain how sound, images, characters and instructions are stored in binary in computers.	Be able to explain how sound, images, characters and instructions are stored in binary in computers.
Assessment	Written Classroom Task – Understand why databases are	KS3 EXAMINATION	Written Classroom Task – Identifying errors and creating	Written Classroom Task – Explain what the role of different	Written Classroom Assessment – be able to explain how	Written Classroom Assessment – be able to explain how

	used and explain how to use them effectively		simple algorithms in Scratch	pieces of hardware and software. Explain what different standards are used for in computing.	and why information is stored by computers	and why information is stored by computers
Cross curricular opportunities	Maths – Comparison Operators	Maths - Logic	Maths - Logic			
Social, Moral, Spiritual, Cultural	Throughout the year students will be working on social skills by working in pairs and groups to complete different activities.					
Homework	Fair Cop Homework Book	Binary and Logic Gates Homework Book	Small Basic Homework Book	Technology Homework Book	Representation of Data Homework Book	Representation of Data Homework Book