

### Computing Curriculum Overview Key Stage 3 - Year 7

Year 7 Computing	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic/Unit to be studied	School Network and E-Mail	Binary and Control	E-Safety	Spy School	Scratch	Scratch
Subject Content Outline	Basics of School Network and sending and receiving e-mails  Understand the role of control technology in society	Understand how to convert binary and denary numbers	Students are introduced to the dangers of social networking, cyber bullying and viruses. They create a TV advert, leaflet and presentation on the subject	Students cover basic formula, functions, graphs and relative cell referencing	Students learn basic programming including algorithms by creating their own games.	Students learn basic programming including algorithms by creating their own games.
Aims/Assessment Objectives	To understand networks and how to send and receive e-mails	To be able to convert between binary and denary and perform binary addition  To be able to identify how computer systems	To understand the dangers associated with the use of ICT and ways to keep safe when using ICT	To be able to use spreadsheets for modelling	To be able to program simple instructions	To be able to program simple instructions
Assessment	Practical Classroom Task - To send and reply to e-mails appropriately	Written Classroom Task – Conversion and addition with Binary Numbers	KS3 Examination	Practical Classroom Task - To create appropriate graphs in Excel  Written Classroom Task – Creating	Practical Classroom Task – To effectively test their end product and evaluate appropriately.  Written Classroom	Practical Classroom Task – To effectively test their end product and evaluate appropriately.  Written Classroom

				formulas and functions in Excel	Task – Understand and identify logic errors in programming.	Task – Understand and identify logic errors in programming.
Cross curricular opportunities		Maths – Binary and Denary conversion and addition		Maths - Formulae	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	School Network and E-Mail Homework Book	Binary and Control Homework Book	E-Safety Homework Book	Spy School Homework Book	Scratch Homework Book	Scratch Homework Book