

Subject Area Curriculum and Assessment Plan

| | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 | |
|---------|----------------------------------|--|--|---|--|--|---|---|
| Year 7 | Topics/Themes Curriculum Content | Familiarisation & Email | Computational Thinking | Spreadsheets | Databases & Graphs | Internet Safety & Documents | Block Based Programming | Programming Extensions and Physical Devices |
| | Key Assessment Tasks | Email checklist | Bebras Test & Spreadsheet Test | Graphs Test | Safety Test | Scratch Test 1 | Scratch Test 2 | |
| Year 8 | Topics/Themes Curriculum Content | Spreadsheets | Game/List Programming & Computational Thinking | HTML and Web Pages | Number Systems | Understanding the Internet | Handling Input/Output | |
| | Key Assessment Tasks | Spreadsheet Test | Scratch Test & Bebras Test | HTML Test | Numbers Test | Internet Test | Scratch I/O Test | |
| Year 9 | Topics/Themes Curriculum Content | Working in Binary | Computational Thinking & Text-based coding | Logic Gates and Keyboarding | Designing Effective Layouts (Website) | Programming Skills (randomisation and co-ordinates) | Hardware and Architecture (inc LMC) | DTP |
| | Key Assessment Tasks | Binary Test | Bebras & Small Basic Test | Logic Gates Test | Website Teacher Assessment | Scratch Test | Parts of a Computer Test | Bottles Bistro teacher assessment |
| Year 10 | Topics/Themes Curriculum Content | Familiarisation with Visual Studio, VB data types and syntax for iteration and selection | String handling and introducing pseudocode/flowcharts. Lots of repetition of basic concepts. | Arrays, sorting algorithms and more consolidation of basic programming syntax. Introducing trace tables | More sorting algorithms and challenges to create extended projects | Sub-routines and validation exercises. SQL | Theoretical aspects of programming not covered elsewhere. | |
| | Key Assessment Tasks | One or two practical assessments | One or two practical assessments | Written test. | Written test | Assess by progress in challenges | Mock Exam (Paper 1) | |
| Year 11 | Topics/Themes Curriculum Content | 'Mock' controlled assessment | 20 hours controlled assessment | Hardware | Networks and System Software (building on Y10 Theory HW) | Social, Ethical and Legal Issues (building on Y10 Theory HW) | | |
| | Key Assessment Tasks | Teacher marked 'mock'. | Teacher marked CA. | Written test | Written Test | Mock GCSE Exam(s) | | |

Homework Plan for KS4

Throughout Y10 and the first half of Y11 homework is set once per week and aims to give students a chance to have an initial look at all the paper 1 topics. These are then revisited in Y11 Spring 1, Spring 2 and Summer 1.