

COMPUTING

Student year: **Upper 4 (Yr 9)**

Head of Department: **Mr J Friendship**

SUBJECT OVERVIEW

The focus of computing at the Maynard School is changing. Programming will be the focus of the year with the students being exposed to multiple programming languages including Python, Java and HTML

The students will learn about computing through three distinct learning pathways:

- The National Curriculum (with programming emphasis)
- Computer Training software they need to extend their learning in all subjects
- E-Safety (Keeping students safe in the digital environment)

National Curriculum

Understand how instructions are stored and executed within a computer system; understand how data of various types (including text, sounds and pictures) can be represented and manipulated digitally, in the form of binary digits

Undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users

Create, re-use, revise and re-purpose digital artefacts for a given audience, with attention to trustworthiness, design and usability

Computer Training

Advanced Excel Skills including Pivot Tables, Filters, sorting and data handling

Using Word for reports including styles, indexes and referencing
App Creation

Survey creation and response analysis through Excel

End of year programming project

E-Safety

Digital breadcrumbs and finding digital foot prints

Understand a range of ways to use technology safely, respectfully, responsibly and securely, including protecting their online identity and privacy; recognise inappropriate content, contact and conduct and know how to report