COMPUTING

out simple operations on binary numbers

Student year: **Upper 3 (Yr 7)**SUBJECT OVERVIEW

Head of Department: Mr J Friendship

The students that arrive at Year 7 are digital natives who have already acquired numerous computing skills through their daily lives. However, these tend to be as a user rather than as a developer, and programming skills will feature across the curriculum. This will allow students to continue their qualifications in Computer Science.

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

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

National Curriculum	Computer Training	E-Safety
Design, use and evaluate computational abstraction	Cloud-based saving of files and the use of iLearn 365	Cyberbullying - How to avoid it and how to get help
Understand several key algorithms that reflect computational thinking	Setting up and using school email on personal devices	Digital Footprints - from tracking to sexting
Use two or more programming languages, at least one of which is textual, to solve a variety of computational	Publisher - creating posters and presentation materials for cross-curriculum lessons	'With friends like these' – Self-esteem, understanding and resisting peer pressure and its impact on students online.
problems; Using Java Blocks and Python	Presentation software - so students can efficiently present their	stadente en me.
Understand simple	ideas in lessons	
Boolean logic and some of its uses in circuits and programming; understand how numbers can be represented in binary,	Good Internet research - understanding bias in their own views and those of others - Critical thinking skills	
and be able to carry	Photoshop Essentials	