Department:	Computer Science

Year 8 Course summary:

Students will develop their computational thinking skills through the use of Boolean operators, Venn diagrams, abstraction and decomposition. They will be introduced to the binary number system and to the key concepts of Artificial Intelligence and its increasing impact in our world. In th eAutumn term they will take part in the National Bebras challenge.

Students will also continue to improve their Python programming and Spreadsheet skills including practical projects on Microbits.

Throughout the year students will discuss current issues in Computing including cybercrime, privacy and the environmental impact.

Assessments:		
Michaelmas	Lent	Summer
1.Computational Thinking 2. Artificial Intelligence	1. Perse Coding Challenge 2. Photo-fit Python project	1. Spreadsheets 2. Mircobit programming

Key vocabulary:	
Binary Boolean operators Logic gates Abstraction Decomposition Source Code Machine Learning Training Data Turing Test Sentiment Analysis	Data Types Sequence Selection Iteration Emulator Sensor Actuator Ethics Bias