

CURRICULUM PLAN Computer Science (Year 10)

YEAR	TRINITY 2	MICHAELMAS 1	MICHAELMAS 2	LENT 1	LENT 2	TRINITY 1
	Computational Thinking & Python Basics Recap	Programming Concepts	Data Structures & Structured Programming	Robust & Secure Programming	Fundamentals Of Data Representation 1	Fundamentals Of Data Representation 2
10	In this unit pupils will recap key programming skills including inputting and outputting text and using selection. Pupils will be able to identify the different data types used in a program. Furthermore, pupils will develop an understanding of the difference between syntax and logic errors. Pupils will investigate different types of searching and sorting algorithms	Variable declarationConstant declarationAssignmentIteration	Pupils will investigate the use of arrays and records in programs during this unit.	During this unit pupils will consolidate their programming skills, independently creating solutions to given problems. Pupils will also understand the importance of robust and secure programming and will be able to: Write simple validation routines; Write simple authentication routines; Understand what test data is and describe different types of tests		RLE frequency.