



Department:	Computer Science	
Year 7 Course summary:		
<p>Students will explore the core fundamentals of Computer Science and Computers, focusing on the nature and function of the CPU. They will develop their logic skills through the decomposition of simple problems. They will produce a range of plans using Flowcharts before realising their solutions in Python. Students will discover the importance of computer-based modelling and develop a complex spreadsheet model to investigate a real-world problem.</p>		
Assessments:		
Michaelmas	Lent	Summer
1. Computing fundamentals 2. Flowchart Programming	1. Python Programming 2. Spreadsheet Investigation	1. Turtle graphics 2. Graphics
Key vocabulary:		
Algorithm Flowchart Sequence Selection Iteration Casting Concatenation Input Processing Output String Integer Float Boolean	Browser Search Engine CPU FDE cycle RAM ASCII Formula Function Absolute and relative Cell referencing Resolution Vector and bitmap images	