

# Computing

Programme of Study	Year 7 Milestones
<b>Algorithms and Programming</b>	Know a recursive solution to a problem repeatedly applies the same solution to smaller instances of the problem.(A)
<b>Data and Data Representation</b>	Analyse and Evaluate data and information, and recognise that poor quality data leads to unreliable results, and inaccurate conclusions
	Query data on one table using using a typical query language
	Know that digital computers use binary to represent all data
	Understand how bit patterns represent numbers and images
	Knows that computers transfer data in binary
	Understand the relationship between binary and files size
<b>Hardware and Processing</b>	Know that there is a range of operating systems and applications software for the same hardware
	Know the main concepts behind the fetch execute cycle
	Know the function of the main internal parts of basic computer architecture
<b>Communication and Networks</b>	Understand data transmission between digital computers over networks including the internet , i.e. IP addresses and packet switching
<b>Information Technology and Use of Applications</b>	Evaluate the appropriateness of digital devices, internet services and application software to achieve given goals
	Recognise Ethical issues surrounding the application of technology beyond school
	Design criteria to critically evaluate the quality of solutions, use the criteria to identify improvements, and make appropriate improvements to the solution