Subject	Computer Science
Director of subject	Ms H Ahmed
Subject Intent	Our KS4 we want to create curious learners, who use creative thinking to look at problems and work out how to use a computer to help them solve the problem. To develop students into resilient learners who can learn from their mistakes. We want our students to understand that technology is growing in all industry sectors and good computing skills will allow them to open to a wider range of opportunities. The curriculum focuses around computational thinking, helping students in developing programming skills and the understanding of human and machine intelligence. Building on analytical skills and the ability to provide logical reasons and rationale to the methods they have used. Abstracting and decomposing are fundamental skills taught in computer science with the highlight that no problem is too big or small. Students' knowledge is built on how technology is growing at such a rapid pace that understanding the ethics and morals associated with computer use is very important. Computer network and cyber security and methods that are taken to ensure data is safe, at the same time being up to date with the dangers. Students are equipped with the knowledge to advise on device specification based on user requirement.
Years of study	GCSE Year 10 and Year 11
Exam board	OCR

External websites utilised			www.teach-ict.com www.bbcbitesize.co.uk https://stemtutoring.co.uk/			
Useful resources			CGP revision book BBC Bitesize Teach ICT Clear Revise			
Years	**HT1**	**HT2**	**HT3**	**HT4**	**HT5**	**HT6**
Year 7						
Year 8						
Year 9						
Year 10	Systems Architecture	Memory , storage, data representation	Networking	Legal, ethical & cultural issues	Algorithms & Pseudocode	Programming in Python
Year 11	Testing	Boolean operators	Truth tables, IDE's	Revision	Revision	