



Department:	Computer Science	
Year 8 Course summary:		
<p>Students will develop their computational thinking skills through the use of Boolean operators, Venn diagrams, circuit diagrams and abstraction. They will be introduced to the binary number system and to the key concepts of Artificial Intelligence and its increasing impact in our world.</p> <p>Students will learn the basics of HTML and CSS to develop their own simple website, and undertake an extended group project to investigate Control, using various Robotics kits and software. They will also continue to develop their graphic design and python programming skills.</p>		
IST Assessments:		
Michaelmas	Lent	Summer
1. Computational Thinking 2. Artificial Intelligence	1. Website showcasing work at KES 2. Robotics Investigation and Project Log	1. Python programming 2. Graphics
Key vocabulary:		
Binary Boolean operators Logic gates Circuit diagrams Abstraction Decomposition Source Code Machine Learning Training Data Turing Test Sentiment Analysis	Networks Domains Packet Switching HTML CSS Hyperlinks Resolution Vector and bitmap images Emulator Sensor Actuator	