



Year 9 Curriculum

Computer Science



	Term 1 (Autumn)		Term 2 (Spring)		Term 3 (Summer)	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Binary Numbers Elements of a computer Networks	Programming Concepts	AI & Machine Learning	Control Flow & Flowol	Computational Thinking	Computer Crime & Security Databases using MS Access
Key Concepts	<ul style="list-style-type: none">• Elements of a computer• Understanding Binary• Binary Addition• The Internet• Connectivity• Client Server Technology• Encryption	<ul style="list-style-type: none">• Python – Programming tasks and development• Python – Variables and constants (Different data types)• Sequence• Selection• Python - Iteration	<ul style="list-style-type: none">• What is AI?• Machine Learning• Ethics of AI• Image recognition• Turing tests and chatbots• Rate a review	<ul style="list-style-type: none">• Flowcharts• Sequencing• Sensors• Subroutines• Actuators• Variables	<ul style="list-style-type: none">• Logic Gates• Abstraction, Decomposition and Abstraction• Search and Sort	<ul style="list-style-type: none">• Email Scams• Computer Misuse• Protecting personal Data• Copyright• Health and Safety• Introduction to databases using MS Access




Year 8 Assessment

Computer Science



All pupils will sit several knowledge tests and an assessment in Year 8.

	Knowledge Tests	Assessment	Revision Resources
	Autumn/Spring Terms	Summer Term	
Style of Assessment	Each knowledge test consists of 10 multiple-choice questions	A mix of computer based and short answer questions	<i>Kennet Resources</i> <ul style="list-style-type: none">Year 8 Knowledge OrganisersLearning Habits <i>External Resources</i> <ul style="list-style-type: none">http://teach-ict.comwww.bbc.com/bitesizeL:\Pupils\Subjects\Computer Science\2. Year 8\01. Lesson Resources <p>You can also find revision material on Frog</p> 
Topics Assessed	<ul style="list-style-type: none">Core knowledge taught until that point in the academic year	<ul style="list-style-type: none">PythonExcelBinary Number SystemThe Internet and Web Development	