



Year 8 Curriculum

Computer Science



	Term 1 (Autumn)		Term 2 (Spring)		Term 3 (Summer)	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	<p>Number Bases</p> <p>File Naming Conventions & Directory Structures</p> <p>Python</p>	<p>Excel</p>	<p>The Internet</p> <p>Web Development</p>	<p>Understanding Computers</p>	<p>Microbit</p>	<p>Computer Crime & Cyber Security</p> <p>App Development</p>
Key Concepts	<ul style="list-style-type: none"> • Binary (Hex for upper sets) • Variables/Data types • Selection • Iteration • Maths functions • Sub programs 	<ul style="list-style-type: none"> • Cell data types • Formatting Cells • Formula and functions • Modelling data • Goal seek 	<ul style="list-style-type: none"> • ISPs and search engines • Fake news • HTML • Creating a web page 	<ul style="list-style-type: none"> • Elements of a computer • The CPU • Understanding Binary • Binary Addition • Storage Devices • Convergence and New Technologies 	<ul style="list-style-type: none"> • Creating independent, portable program to run on Microbit • Use different peripherals to attach to Microbits and code their functionality 	<ul style="list-style-type: none"> • Email Scams • Computer misuse • Protecting personal data • Copyright • Designing Apps using Thinkable • Adding behaviour to the components • Testing the apps using Thinkable App



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 Organisers Learning Habits <i>External Resources</i> <ul style="list-style-type: none"> http://teach-ict.com www.bbc.com/bitesize L:\Pupils\Subjects\Computer Science\2. Year 8\01. Lesson Resources
Topics Assessed	<ul style="list-style-type: none"> Core knowledge taught until that point in the academic year 	<ul style="list-style-type: none"> Python Excel Binary Number System The Internet and Web Development 	