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	**Number bases** **Introduction to computational thinking** **File naming conventions & directory structures** **Python**	**Excel**	**The Internet** **Web development**	**Understanding Computers**	**Microbit**	**App Development**
Key Concepts	• Binary (Hex for upper sets) • Problem solving • Algorithms • Variables/Data types • Selection • Iteration • Maths functions • Sub programs	• Cell data types • Formatting Cells • Formula and functions • Modelling data • Goal seek	• ISPs and search engines • Fake news • HTML • Creating a web page	• Elements of a computer • The CPU • Understanding Binary • Binary Addition • Storage Devices • Convergence and New Technologies	• Creating independent, portable program to run on Microbit • Use different peripherals to attach to Microbits and code their functionality	• Designing Apps using Thunkable • Adding behaviour to the components • Testing the apps using Thunkable 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	*Kennet Resources* • Year 8 Knowledge Organisers • Learning Habits *External Resources* • http://teach-ict.com • www.bbc.com/bitesize • L:\Pupils\Subjects\Computer Science\2. Year 8\01. Lesson Resources You can also find revision material on Frog
Topics Assessed	• Core knowledge taught until that point in the academic year	• Python • Excel • Binary Number System • The Internet and Web Development	