



# 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	<b>Number bases</b>  <b>Introduction to computational thinking</b>  <b>File naming conventions &amp; directory structures</b>  <b>Python</b>	<b>Excel</b>	<b>The Internet</b> <b>Web development</b>	<b>Understanding Computers</b>	<b>Microbit</b>	<b>App Development</b>
Key Concepts	<ul style="list-style-type: none"><li>• Binary (Hex for upper sets)</li><li>• Problem solving</li><li>• Algorithms</li><li>• Variables/Data types</li><li>• Selection</li><li>• Iteration</li><li>• Maths functions</li><li>• Sub programs</li></ul>	<ul style="list-style-type: none"><li>• Cell data types</li><li>• Formatting Cells</li><li>• Formula and functions</li><li>• Modelling data</li><li>• Goal seek</li></ul>	<ul style="list-style-type: none"><li>• ISPs and search engines</li><li>• Fake news</li><li>• HTML</li><li>• Creating a web page</li></ul>	<ul style="list-style-type: none"><li>• Elements of a computer</li><li>• The CPU</li><li>• Understanding Binary</li><li>• Binary Addition</li><li>• Storage Devices</li><li>• Convergence and New Technologies</li></ul>	<ul style="list-style-type: none"><li>• Creating independent, portable program to run on Microbit</li><li>• Use different peripherals to attach to Microbits and code their functionality</li></ul>	<ul style="list-style-type: none"><li>• Designing Apps using Thunkable</li><li>• Adding behaviour to the components</li><li>• Testing the apps using Thunkable App</li></ul>




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