

## Oakfield Academy Computing Curriculum Map Key Stage 3

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p><b>Year 7</b></p> <p>Languages taught: Scratch HTML</p>	<p><b>eSafety:</b> Learn about reliability of websites, viruses, online security and passwords</p> <p><b>Hardware &amp; Computer Systems:</b> Learn about the CPU and have the opportunity to take a computer apart. Understand that reference to memory means RAM (or ROM)</p>	<p><b>Computational thinking and flowcharts.</b></p> <p>Pupils are able to demonstrate their skills to think computationally and understand how to write in 'pseudocode'. #HourofCode</p>	<p><b>Binary Numbers</b></p> <p><b>Python: An Introduction</b></p> <p>Pupils are able to experience a new programming language in Python and how to use statements, variables and functions.</p>	<p><b>Game Reviews &amp; Construction:</b></p> <p>Pupils are able to use online resources to review, play, deconstruct and create their own online platform games to see how they are pieced together to create the experiences.</p>	<p><b>Web Design:</b> Pupils recognise how websites are put together and attempt to create their own pages using online HTML editors.</p>	<p><b>Digital Literacy:</b></p> <p>Formal letter writing Presentation tools using Power Point and Prezi to create interactive presentations.</p>
<p><b>Year 8</b></p> <p>Python Java (#Challenge)</p>	<p><b>eSafety:</b> Cyberbullying and grooming/ Use of social media</p> <p><b>Storage Superheroes:</b> To identify how storage can vary for data and to begin to recognise the significance of cloud based storage. (Introduction to Google Drive)</p>	<p><b>Python: Numbers &amp; Drawing</b></p> <p>Pupils are able to expand on their previous learning of Python to apply it to solving problems. #HourofCode</p>	<p><b>Sorting and Searching Algorithms</b></p> <p><b>Boolean Logic, logic gates &amp; Truth Tables</b></p>	<p><b>Sketchup</b></p> <p>Pupils are able to use and experience 3D design and development software.</p> <p><b>Introduction to Pseudocode</b></p>	<p><b>HTML/CSS</b></p> <p>Pupils use HTML code to construct a website from scratch. They draw on their year 7 work of using online editors to compare and contrast their work.</p>	<p><b>Oakfield Alphabet: Photography Project</b></p> <p>Pupils complete a photography project and then use software to digitally alter and manipulate images for specific focuses.</p>