

## Year 9 Computing

<b>How will students be assessed?</b>	
Students will be assessed through a range of in class activities.	
<b>Half term</b>	<b>Key content</b>
1	<p><b>Independent learning skills</b> – Google Drive/classroom, online learning, e-mail etiquette, typing skills and online research skills, risks of social media and impact on health and well-being. Working safely and securely (routines, Online Safety Act)</p> <p>IT skills – students will refresh and further develop their skills in Word Processing and presentation software</p>
2	<p>Students will learn subject specific knowledge to provide a fundamental understanding of Information Technology, systems and computing. They will cover the following topics:</p> <ul style="list-style-type: none"> <li>• Hardware &amp; Software</li> <li>• Everyday computing (e.g. interfaces/systems/data structures behind them)</li> </ul> <p>Feedback on Year 9 Feb Assessment</p> <ul style="list-style-type: none"> <li>• Databases and their relevance to everyday systems</li> <li>• System security – Authentication /password/biometrics</li> <li>• Importance and history of computing &amp; STEM (research project)</li> </ul>
3	<p><b>Introduction to Computer Science Python Programming knowledge and skills:</b></p> <ul style="list-style-type: none"> <li>• Variables</li> <li>• Printing</li> <li>• Inputs</li> <li>• Arithmetic operators</li> <li>• Looping</li> <li>• Selection</li> </ul> <p>The sequence of this may change for some Year 9 classes, there is also focus on file management and organisation of drives and workspaces</p>
4	<p>Students will learn about real world examples and the advantages and disadvantages of information technology, leading to a Digital World</p> <p>Assessment topics include:</p> <ul style="list-style-type: none"> <li>• Cyber security – malware / hackers</li> <li>• Being a digital citizen and the moral/ethical use of IT as well as netiquette</li> <li>• New technologies and current issues such as cryptocurrency, e-waste, AI</li> </ul>

	<p>Whilst learning these topics, students will apply their previous knowledge and skills to create a poster or leaflet involving research and images. <b>File management &amp; storage</b></p> <p><b>IT Projects</b> – Students will learn about the approach to IT projects and the stages of a project for a school fundraising / enterprise project based on a bake sale</p>
5	<p><b>IT Skills – Spreadsheets</b></p> <p>Students will develop their skills in using Spreadsheets incl. formatting, data types, cell referencing, formulae, data validation, lists and lookups, charts, buttons and integrating systems / combining use of software. Focus on end of topic Evaluation.</p>
6	<p><b>IT Skills – Holistic project.</b> Students will complete a project based on a Phone shop, they will create their own range of IT solutions, including use of graphics, spreadsheet, presentation software with a consistent house style approach.</p>