

Here you will find our curriculum overview for Computing. Computing at Key Stage 3 is delivered in rotations, which spans across the year; Approx. 12-14 Lessons

This information covers Year 8 - key stage 3. If you would like more information, please contact:

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Drama curriculum at Holly Lodge Girl's College complies with the Equality Act 2010, the Special Educational Needs and Disability Regulations 2014 and is accessible for pupil with SEND. Click here to view the SEND Policy.

		Topic 1	Topic 2
Year 8	Topic and Curriculum Content	<p>This module is designed to give Year 8 students the essential knowledge to become informed and safe digital citizens. The course moves beyond simply using technology to understanding the core mechanics and wider societal impact of modern computing systems.</p> <p>Over 14 lessons, we cover fundamental concepts, practical programming skills, and crucial aspects of online safety and environmental responsibility.</p> <ul style="list-style-type: none"> • Computer Fundamentals: Exploring architecture (CPU, RAM, Motherboard), the IPOS cycle, and the vital differences between hardware and software. • The Language of Data: Deconstructing how all information is stored using binary code and mastering the conversion of numbers between denary and binary. • Algorithmic Thinking: Developing problem-solving skills through algorithms, flowcharts, and introductory programming concepts like sequence, selection, and iteration. • Cyber Safety: Learning to identify threats like malware and phishing, and implementing effective safety strategies like strong passwords and Multi-Factor Authentication (MFA). • Digital Responsibility: Discussing data privacy, digital ethics, and the environmental impact of e-waste, encouraging responsible technology use. 	<p>This Year 8 Computing unit, "Designing a Digital Festival Experience," is a project-based course where students act as digital designers creating a promotional multimedia product for their own music festival. The aim is to move beyond simple presentations and apply professional digital design principles.</p> <p>Design & Branding: They'll master the principles of Visual Identity and House Style (consistent colours, fonts, imagery) and use these rules to design a unique, original digital logo from scratch using graphic software.</p> <p>Multimedia Production Skills: Students will gain practical experience in several tools:</p> <ul style="list-style-type: none"> ○ Using Wick Editor to create short, embedded animations (like an animated festival icon). ○ Applying basic video editing techniques (trimming, transitions, text overlays) to produce a promotional clip. ○ Designing an intuitive Navigation System using hyperlinks to make the product interactive <p>Technical Literacy: They will understand the importance of File Compression and Optimisation (lossy vs. lossless) to ensure their final product is efficient and loads quickly, a vital skill for web content creation.</p>