

## Overview

We aim to provide a high-quality and engaging education in Computing and Information Technology (IT). We want to equip pupils to use IT effectively and creatively—to be ‘digitally literate’— and to understand some of the theory behind how computers work.

Computing is theory-based and has deep links with mathematics. IT is more practical—using technology to accomplish useful work. IT skills are essential for participation in the modern world. Our current curriculum at KS3 is a mix of Computing and IT. This means students can gain experience with both subjects. Should they choose to study more, there are Computing and IT pathways through KS4 and KS5.

## Topics

	Autumn (7)	Autumn (7)	Spring (6)	Spring (6)	Summer (6)	Summer (7)
7	<b>E-safety &amp; Cyber Security</b>  Inc. staying safe and secure, trolling, location-based apps e.g., Snapchat.	<b>Virtual Tour of Chauncy</b>  Using presentation software, working with multimedia.	<b>Spreadsheets (pt. I)</b>  Built around the theme of an Animal Rescue shelter. Spreadsheets are an essential IT tool.	<b>Website Creation</b>  Continues the Animal Rescue theme. Using Google Sites to build a website.	<b>Spreadsheets (pt. II)</b>  The topic so important we included it twice. Builds on Spring term.	<b>Scratch/Programming</b>  Students will be introduced to block-based programming.
8	<b>E-safety &amp; Cyber Security</b>  Building on work from Year 7. Greater focus on cyber security.	<b>Computational Thinking</b>  Thinking like a Computer Scientist to solve problems.	<b>Bitmap Graphics</b>  Skills-based lessons followed by short project piece (e.g., using Photoshop).	<b>Intro to Databases</b>  Another core piece of IT. This unit taught using Access.	<b>Representation of Data</b>  All about how computers represent numbers, images, and sounds.	<b>Vector Graphics</b>  Skills-based lessons followed by short project. This time using Illustrator.
9	<b>Chauncy News iMedia Project</b>  Pure IT (no Computing), taught on a carousel and graded Pass, Merit or Distinction. Students will become familiar with Google Apps to create an online newspaper.  Students will: <ul style="list-style-type: none"> <li>• Research different types of news using Google Slides.</li> <li>• Create file and folder structure for saving work.</li> <li>• Design a webpage in Google Sites.</li> <li>• Create an online poll in Google Forms.</li> <li>• Produce a pie chart from data collected in Google Sheets.</li> <li>• Interview a member of Staff, create and edit a video to be embedded into the website.</li> <li>• Create primary content such as photographs and reference secondary sources where appropriate.</li> </ul>					