

Calendar	Topic	Assessment	Sequencing and Coherence <i>concepts - themes - skills</i>	Literacy <i>reading - vocabulary - oracy - writing</i>
<b>Autumn</b> <b>Half Term 1</b>	<b>Unit 1 Cyber Crime:</b> <ul style="list-style-type: none"> <li>• Scams</li> <li>• Computer Misuse</li> <li>• Protecting Data</li> <li>• Copyright</li> <li>• Health and Safety</li> </ul>		Checks pupils understanding and keeps them safe at the start of the year linking to Y7 Units 1 and 4. <b>NC threads:</b> Impact of tech Safety and security	Knowledge organisers including glossaries Oracy opportunities within discussions Reading task given at the end of the unit.
<b>Autumn</b> <b>Half Term 2</b>	<b>Unit 2 Intro to Python:</b> <ul style="list-style-type: none"> <li>• Strings and Variables</li> <li>• Data types</li> <li>• Selection</li> <li>• Writing Algorithms</li> <li>• While Loops</li> </ul>	Whole school Exam window on unit topics with feedback from the exam. Next steps time to review knowledge gaps.	Skills unit developing Programming in text-based platform Safety online linking to Y7 Units 1 and 4 and Y8 unit 1 <b>NC threads:</b> Programming Data and Information Impact of tech Safety and security	Knowledge organisers including glossaries Oracy opportunities within discussions Reading task given at the end of the unit.
<b>Spring</b> <b>Half Term 3</b>	<b>BEBRAS Challenge</b>		The Bebras Challenge introduces computational thinking to students worldwide. Each participant has 45 minutes to tackle a series of interactive tasks, designed to encourage logical thinking and problem-solving skills appropriate for their age group. Students don't need to excel in maths or computing to take part in the Bebras Challenge. The tasks are designed to allow every student the opportunity to showcase their potential.	

	<p><b>Unit 3 App Development</b></p> <ul style="list-style-type: none"> <li>• Introduction to Apps</li> <li>• Home screen and navigation</li> <li>• Adding Files, links and images</li> <li>• Using map functions</li> <li>• Programming with Blockly</li> <li>• Publishing your App</li> </ul>	<p>Assessment with a final interactive APP project. The assessment looks at skills used and gives a BCDM level for pupils and allows pupils to self-evaluate. Assessment based on creativity, functionality, user experience, and clarity of messaging</p>	<p>Builds on Year 7 digital media and presentation units, developing creativity and technical proficiency.</p> <p>Introduces emerging technologies and interactive media, promoting engagement and deeper digital literacy.</p> <p>Encourages computational thinking, user-centred design, and digital storytelling.</p> <p>Prepares pupils for KS4 CNAT IT</p> <p><b>NC Threads:</b></p> <p>Creating Media</p> <p>Design and Development</p> <p>Impact of Technology</p> <p>Programming</p>	<p>Knowledge organisers including glossaries</p> <p>Oracy opportunities within discussions, paired design work to develop problem solving skills.</p>
<p><b>Spring</b></p> <p><b>Half</b></p> <p><b>Term 4</b></p>	<p><b>Unit 4 Spreadsheet Modelling</b></p> <ul style="list-style-type: none"> <li>• Computer models</li> <li>• Financial models</li> <li>• What-if scenarios</li> <li>• Conditional formatting</li> <li>• Validation</li> <li>• Macros</li> <li>• Charts</li> </ul>	<p>Assessment is of the final spreadsheet solution</p>	<p>A practical, skills-based unit covering the principles of creating and formatting basic spreadsheets to produce and use simple computer models. Design, use and evaluate computational abstractions that model the state and behaviour of real-world problems and physical systems.</p> <p><b>NC Thread:</b></p> <p>Data and Information</p> <p>Impact of tech</p> <p>Safety and security</p> <p>Effective Use of Tools</p>	<p>Knowledge organisers including glossaries</p> <p>Oracy opportunities within discussions, paired design work to develop problem solving skills.</p>

	<p><b>Continue...</b></p> <p><b>Unit 4 Spreadsheet Modelling</b></p>			
<p><b>Summer</b></p> <p><b>Half Term 5</b></p>	<p><b>Unit 4 Privacy and Security:</b></p> <ul style="list-style-type: none"> <li>• Keep data safe online</li> <li>• Personal Privacy</li> </ul>	<p>Full end of year Assessment covering all units covered so far in the year.</p> <p>Marks will be issued with Next steps feedback</p>	<p>Safe use of personal data while online – looking at what data to share or not share and the consequences, looking at tools and setting and reporting.</p> <p>As pupils increase their online presence, we cover privacy and personal data sharing and the methods to stay safe.</p> <p><b>NC Thread:</b></p> <p>Impact of technology</p> <p>Safety and Security</p>	<p>Knowledge organisers including glossaries</p> <p>Oracy opportunities within discussions</p> <p>Reading task given at the end of the unit.</p>
<p><b>Summer</b></p> <p><b>Half Term 6</b></p>	<p><b>Python Challenge!</b></p> <ul style="list-style-type: none"> <li>• Python basics</li> </ul>		<p>Skills development - Programming in text-based platform</p>	<p>Knowledge organisers including glossaries</p> <p>Oracy opportunities within discussions, paired design work to develop problem solving skills.</p>