

Overview	<p>Our curriculum aims to facilitate students with knowledge, understanding and skills about three disciplines within Computing, IT, Digital Literacy and Computer Science.</p> <p>In Year 7, Units 1 to 6 provide an understanding of the interconnectedness between the three disciplines and the world. Students gain significant context and foundational knowledge about how computers work and understanding the impact of computing in the digital world. The concepts of programming and computational thinking are developed through units such as Scratch Animation and Spreadsheet modelling. Students explore why computational thinking helps us solve problems and how to create algorithms and programs to achieve our goals. Digital Literacy, staying safe online and how computers communicate globally are developed through units 4 and units 5. Understanding how changes in technology affect safety, protecting their online privacy and identify and how to identify and report a range of concerns are embedded throughout the key stage 3 curriculum.</p>
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	8.1 – Photopea	8.2 – Python Programming	Assessment
Autumn Term	<p>Big Question: How do we make our images look professional?</p>	<p>Big Question: How can I write code like a pro?</p>	<p>Socratic Assessment: Term 1: Topic Assessment:</p> <ul style="list-style-type: none"> ■ Introduction to Computers ■ Programming Techniques.
	<ul style="list-style-type: none"> ■ Using a free Photoshop clone, ■ Draw and enhance pictures using layers, ■ Spot healing brush, ■ Clone tool ■ File formats 	<p>We take the leap into text coding, with input, variables, "if", "for" and "while", and put it all together in a quiz game.</p>	

	8.3 – Binary	8.4 – Safe & Positive (PSHE)	Assessment
Spring Term	<p>Big Question: How do I convert binary to denary?</p>	<p>Big Question: How do we ensure our online lives are positive?</p>	<p>Socratic Assessment: Term 2: Topic Assessment:</p> <ul style="list-style-type: none"> ■ Spreadsheet Modelling ■ Digital Literacy and digital safety
	<ul style="list-style-type: none"> ■ Learning our way around a spreadsheet and using it to plan a party. ■ Cell Referencing ■ Formulas ■ Functions ■ Charts ■ Project Planning 	<ul style="list-style-type: none"> ■ Staying safe online, ■ What the dangers are ■ Knowing how to spot a phish or fake news, ■ Behaving ethically and reporting problems. 	

	8.5 Computing Systems		Assessment
Summer Term	<p>Big Question: How do computers really work, under the hood?</p>	<p>Programming Activities and Assessment</p>	<p>Socratic Assessment: Term 3: Topic Assessment:</p> <ul style="list-style-type: none"> ■ Networking ■ End of year exam
	<ul style="list-style-type: none"> ■ Connecting computers together, ■ Breaking data into packets, ■ How Wifi works, what's my IP? ■ How the internet is not the WWW! 		

Useful Resources for Supporting Your Child at Home:	Homework:
BBC Bitesize Seneca Learning Quizlet IDEA	Seneca Learning, IDEA or Quizlet set on Teams