	Year 8 Computer Science Curriculum Plan					<u> </u>	
Component 1	Core		Hinterland		NC Coverage	Assessment	Whole Education
(Autumn Term 1 & 2) Programming (Python) - CS	<ul> <li>Knowledge</li> <li>Introduction to python</li> <li>Operators</li> <li>Input / variables</li> <li>Data types</li> <li>selection</li> </ul>	<ul> <li>Skills</li> <li>Writing programs using the concept of:-</li> <li>Sequence</li> <li>Selection</li> <li>Iteration</li> <li>functions</li> </ul>	<ul> <li>Knowledge</li> <li>System analysis</li> <li>Computational solutions</li> </ul>	Skills <ul> <li>Using flow charts in sequencing way to solve problem</li> <li>Developing, testing, and evaluating programs.</li> </ul>	• 4CC2 • 4CC3	<ul> <li>End of topic assessment</li> <li>PR point assessments</li> </ul>	<ul> <li>Opportunities</li> <li>SMSC- students to explore and develop their thought pattern.</li> <li>Building their 5C's-character, confidence, creativity, communication, and community</li> </ul>
Modelling Data (Spreadsheet) -IT	<ul> <li>Introduction to spreadsheet</li> <li>Collecting of data</li> <li>Quick calculations</li> <li>Mastering data manipulation</li> </ul>	<ul> <li>Develop understanding of formatting features of spreadsheet</li> <li>Collecting data for decision making</li> <li>Analysing data by creating and using charts</li> </ul>		<ul> <li>Drawing up a budget</li> <li>Storing and manipulating data to make informed decision</li> </ul>			
(Spring 1&2) Presentation? E-Safety -IT	<ul> <li>Basic knowledge of PowerPoint</li> <li>PowerPoint presentation templates</li> <li>Cyberbullying</li> <li>Digital footprint</li> </ul>	<ul> <li>Creating presentation slides using slide master</li> <li>Incorporating text boxes, shapes, images, colours in a presentation.</li> <li>Develop understanding of the issues with online sites such as social networking sites and cyberbullying.</li> </ul>	<ul> <li>Protecting yourself</li> <li>Avoiding posting of personal information online</li> </ul>	<ul> <li>Information technology and digital literacy skills.</li> </ul>	• 4CC1 • 4CC2 • 4CC3	<ul> <li>PLC</li> <li>End of topic assessment</li> <li>PR point assessments</li> </ul>	<ul> <li>SMSC- Avoid bullying people online.</li> <li>Students considering the environmental issues of misuse and access rights to personal data</li> <li>Computational thinking is applicable to all subjects</li> </ul>
Data Representation – CS	<ul> <li>Binary, decimal, and hexadecimal conversions</li> <li>ASCII character coding</li> <li>How computer represent</li> <li>Boolean logic</li> <li>Logic gates</li> </ul>	<ul> <li>Representing numbers by binary and hexadecimal notations.</li> <li>Compressing of data</li> <li>Explore the conversion of binary digits for signal representation</li> <li>Use an ASCII table to decipher an encoded message written in binary</li> </ul>	<ul> <li>Analysing numeric data</li> <li>Statical knowledge</li> </ul>	<ul> <li>Digital encoding</li> <li>Encoding website images</li> </ul>			
Summer Term 1 & 2) Computers (Hardware / Software) -CS	<ul> <li>System architecture</li> <li>The CPU and fetch-Execute-Cycle</li> <li>Memory</li> <li>Secondary storage</li> </ul>	<ul> <li>Differentiating between hardware and software devices.</li> <li>Calculating capacities of memory and storage devices.</li> </ul>	<ul> <li>Awareness of general computer systems</li> </ul>	Computer literacy			
Web Development -IT	<ul> <li>Introduction to web development</li> <li>Introduction to HTML Tags</li> <li>Introduction of CSS</li> </ul>	<ul> <li>Creating HTML tags</li> <li>Creating CSS tags</li> <li>Formatting activities using HTML tags</li> </ul>	<ul> <li>Technology that makes up the internet.</li> </ul>	Website development			

Interpreting html and CSS	
codes	