

Year: 9

Subject: Computer science

<b>Autumn Term</b>		
Overarching Topic: HTML, CSS, JavaScript & System security		
What has come before and what comes later:	Year 9 starts by reviewing the topic of HTML & CSS and introduces JavaScript. Following on students look at cyber security and the threats to system security.	
	Core	Extension
The Big Questions (What questions will students be able to answer upon mastery of the topic?)	<ul style="list-style-type: none"><li>• What are the advantages of CSS?</li><li>• How is CSS used in industry?</li><li>• What is JavaScript?</li><li>• Where can JavaScript be used?</li> <li>• What is cyber security?</li><li>• How do you protect your machine and your data?</li><li>• What is social engineering?</li><li>• What is malware?</li><li>• What is phishing?</li></ul>	<ul style="list-style-type: none"><li>• Research the difference between client side and server-side scripting</li> <li>• What are script kiddies?</li><li>• What are bots?</li><li>• Why are humans often the weak point in security?</li></ul>
	Skill/Technique	How students will develop and demonstrate this
Key skills	Problem solving Sequencing instructions Reviewing and refining solutions Identifying threats to data	During assessments, classwork and homework, students will: Create a webpage using HTML, CSS & JavaScript Spot and correct errors in HTML, CSS & JavaScript Explain the threats to computers and data Suggest how to keep computers and data safe from threats.