

Year: 9

Subject: Computer science

Spring Term		
Overarching Topic: File handling Python & “Back to the future”		
What has come before and what comes later:	Students continue to build upon the skills they have practiced in Python by learning how files are handled. An interactive quiz is then created based on some of the computer science pioneers Alan Turning, Sir Tim Berners Lee, George Boole, Charles Babbage	
	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 is file handling?</li> <li>How do you write to a file?</li> <li>How do you read to a file?</li> <li>What is a list?</li> <li>Who was / is Alan Turning, Sir Tim Berners Lee, George Boole, Charles Babbage?</li> <li>How does the World Wide Web differ from the Internet?</li> <li>What did Charles Babbage design?</li> </ul>	<ul style="list-style-type: none"> <li>What are CSV files?</li> <li>Is a list any different from an array?</li> <li>What would the world be like if he had not given the WWW as a gift to humanity (made it free)? How different would our lives be?</li> <li>Why was Babbage’s design so important?</li> <li>What other uses does VB have?</li> </ul>
	Skill/Technique	How students will develop and demonstrate this
Key skills	Sequencing instructions Creating assets Adapting media for a different purpose Thinking logically	During assessments, classwork and homework, students will: <ul style="list-style-type: none"> <li>Read and write to a range of files. Format how the data is written to a file. Read data from a list and then manipulate the list e.g. sorting.</li> <li>Create an interactive quiz using VB with questions based on the computer science pioneers and their achievements.</li> </ul>