Computer Science - Curriculum Overview -Summer 2027

Year 7	
What are you teaching? Summer 1	**What are you teaching? Summer 2**
Principals of Programming	Principals of Programming
Why have you chosen to teach this unit, and this time?	
- This unit will reinforce and refresh units taught at KS2 and further prepare for more complex tasks in KS3 & KS4	
What are the 3 key pieces of knowledge you will have expected students to acquire by the end of this unit?	
- Sequencing - Iteration - Selection	
Is this topic on the National Curriculum? Yes **Will all staff be teaching this unit?** Yes	

Year 8	
What are you teaching? Summer 1	**What are you teaching? Summer 2**
Design and Development	Design and Development
Why have you chosen to teach this unit, and this time?	
- This unit will build on previous knowledge and skills and with further build on their knowledge of text based programming.	
What are the 3 key pieces of knowledge you will have expected students to acquire by the end of this unit?	
- To understand what algorithms are. - To be able to sequence a series of algorithms. - To be able to use variables and boolean variables.	

Is this topic on the National Curriculum? Yes
Will all staff be teaching this unit? Yes

Year 9	
What are you teaching? Summer 1	**What are you teaching? Summer 2**
Digital Media	Digital Media
Why have you chosen to teach this unit, and this time?	
This unit will directly lead into either GCSE Computer science and BTEC Digital Information Technology.	
What are the 3 key pieces of knowledge you will have expected students to acquire by the end of this unit?	
- Know the digital elements that make up different media - Know how colours are a mix of red, green and blue - Know how to calculate the resolution size	
Is this topic on the National Curriculum? Yes **Will all staff be teaching this unit?** Yes	

Year 10	
What are you teaching? Summer 1	**What are you teaching? Summer 2**

Component 2 - Collecting, Presenting and Interpreting Data ● Learning aim B- Create a dashboard using data manipulation tools ● Learning aim C be able to draw conclusions and review data presentation methods	Component 3 Effective Digital Working Practices AO1 Demonstrate knowledge of facts, terms, processes and issues in relation to digital information technology AO2 Demonstrate an understanding of facts, terms, processes and issues in relation to digital information technology AO3 Apply an understanding of facts, terms, processes and issues in relation to digital information technology AO4 Make connections with the concepts, issues, terms and processes in digital
	information technology
Why have you chosen to teach this unit, and this time?	
- This has to be covered prior to the final. - This has aspects linked to exam topics such as Data v information, Data collection and why we model data	
What are the 3 key pieces of knowledge you will have expected students to acquire by the end of this unit?	
- Modern technologies - Cyber security - Digital systems - Communication systems	
Is this topic on the National Curriculum? Yes **Will all staff be teaching this unit?** Yes	

Year 11	
What are you teaching? Summer 1	**What are you teaching? Summer 2**
Course Completed Examination skills and prep for May June	Course Completed Examination skills and prep for May June
Why have you chosen to teach this unit, and this time?	
N/A	

What are the 3 key pieces of knowledge you will have expected students to acquire by the end of this unit?
- N/A
Is this topic on the National Curriculum? No **Will all staff be teaching this unit?** Yes