Curriculum Sequencing Overview – Year 11 – Computer Science

Week	1	2	3	4	5	6	7	8
Unit Theme and Assessed Knowledge/ Skills	Recapping programming in Python basics		More advanced programming content			Revisiting topics from Paper 1		
Lesson Topics Sequence & Content	1. INSET 2. Recap Computational thinking 3. OCR Reference language Searching algorithms	4. Searching algorithms 5. Sorting algorithms 6. Algorithms using flow charts	7. Algorithms using pseudocode 8. Interpret and correct algorithms 9. KA 1 Searching and sorting Algorithms –- Programming arrays	10. Algorithms End of Unit test 11. Programming Arrays 12. Programming Procedures & Functions	13. Programming Records & Files 14. Programming SQL 15. Programming SQL	16. Programming End of unit test 17. Flowchart recap -Exam questions 18. Pseudocode recap -Exam questions	1. Systems Architecture recap 2. Data representation recap 3. Network connections recap	4. Network security recap 5. Impacts of technology recap 6. KA2 Network recap Exam question practice
Key Assessments			KA 1 Searching & sorting algorithms			Programming End of Unit test		KA2 Network recap

Week	9	10	11	12	13	14	15	16
Unit Theme and Assessed Knowledge/ Skills	Mock prep – completing past questions	Y11 Mock Exams 1		Computer logic	Game making in PyGame using subroutines	Computer logic and languages		
Lesson Topics Sequence & Content	11. Mock practice 1 Past paper Qs 12. Mock practice 2 Past paper Qs 13. Mock practice 3 Past paper Qs	**Mock Exams** Uninterrupted lessons will focus on revision.	**Mock Exams** Uninterrupted lessons will focus on revision.	1. Logic diagrams & truth tables 2. Logic diagrams & truth tables 3. Logic diagrams & truth tables	4. Mock feedback 5. KA 3 Truth tables. Languages – defensive design 6. Pygame game creation - subroutines	7. languages defensive design 8. 5. Languages – defensive design 9. Errors & testing	10. 9. Errors & testing 11. Errors & testing 12. translators & facilities	13. translators & facilities 14. IDEs 15. End of topic test
Key Assessments		Y11 Mock Exams 1- Full Paper 1			KA 3 Truth tables.			End of topic test – logic & languages

Week	17	18	19	20	21	22	23	24
Unit Theme and Assessed Knowledge/ Skills	Recap and fill in gaps in knowledge from spec			Y11 Mock Exams 2		Recap programming skills	Reflect and close loop on mock exam learning	
Lesson Topics Sequence & Content	1. Revise **– spec sections** Computational Thinking 2. Revise designing, creating and refining algorithms 3. Revise **– spec sections** Searching & sorting algorithms	4. Revise **– spec sections** Programming fundamentals 5. Revise **– spec sections** Data types & casting 6. **– spec sections** One and 2 d arrays	7. Revise defensive design 8. Revise testing & Boolean logic 9. Revise languages & IDEs	Mock Exams Uninterrupted lessons will focus on revision.	Mock Exams Uninterrupted lessons will focus on revision.	1. Practical programming – paired tasks 2. Practical programming – paired tasks 3. Create personal CS revision plan	1. Reflection on mock paper Student questionnaire on topics confident on/not 2. Address misconceptions in mock paper 3. Address misconceptions in mock paper	4. Recap of topics students not confident about 5. Recap of topics students not confident about 6. Recap of topics students not confident about
Key Assessments			Revise KO 5 set 3	Y11 Mock Exams 2 – Full Paper 2				KA 4 Mock revisit

Week	25	26	27	28	29
Unit Theme and Assessed Knowledge/ Skills	Revision based on question level analysis. A specific breakdown of prioritised topics will be provided at the time.				*GCSE Exams Start – 9th May*
Lesson Topics Sequence & Content	To be determined at the time based on mock exam performance and individual/whole class needs.				
Key Assessments	Ongoing exam practice across paper 1 and paper 2 (self, peer and teacher assessed).				