Subject Long Term Plan Year 11 2021-22

Temperance Term

W/C	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	
Area of Study	**Unit 1.1-3**	**Unit 1.3-6**	**Mock Exams**	**Unit 2.1**	**Unit 2.1**	**Unit 2.1**	**Unit 2.4**	
Core Learning	**Objectives:** Understand the key concepts of computer architecture **Content:** **Units 1.1 -1.3**	**Objectives:** Understand the key concepts of computer networks and security **Content:** **Units 1.4 -1.6**		**Objectives:** Trace/write algorithms using flowcharts and pseudocode **Content:** Producing &correcting algorithms	**Objectives:** Describe and compare search algorithms **Content:** Linear and Binary searches	**Objectives:** Describe and compare sort algorithms **Content:** Bubble / Merge / Insertion Sorts	**Objectives:** Construct truth tables **Content:** Computational Logic	HALF TERM
Opportunities for Challenge		Open-ended task		Open-ended task	Explain task	Explain task	Multiple gates	
Assessment	Questioning	Questioning	**Year 11 Mock Exams**	Verbal/written Q&As	Verbal/written Q&As	Verbal/written Q&As	Verbal/written Q&As	

W/C	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	
Area of Study	**Unit 1.2**	**Unit 1.2**	**Unit 1.2**	**Unit 2.3**	**Unit 2.3**	**Unit 1.1**	
Core Learning	**Objectives:** Convert between denary, binary and hex number systems **Content:** Binary / Hexadecimal	**Objectives:** Describe how computers store characters and images **Content:** Characters / Images	**Objectives:** Describe how sound is represented in a computer **Content:** Sound/ compression	**Objectives:** Describe how to write robust programs and maintainable code **Content:** Defensive Design	**Objectives:** Describe/identify errors in computer programs and algorithms **Content:** Syntax, runtime and logic errors	**Objectives:** Describe the role of a CPU in a computer system **Content:** CPU-function V N architecture CPU-performance	CHRISTMAS
Opportunities for Challenge	Trickier calculations	Compare & contrast task	Explain task	Open-ended task	Open-ended task	Open-ended task	
Assessment	Verbal/written Q&As	Verbal/written Q&As	Verbal/written Q&As	Verbal/written Q&As	Verbal/written Q&As	Verbal/written Q&As	

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Justice Term

W/C	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	
Area of Study	**Unit 2.5**	**Unit 2.2**	**Unit 1.6**	**Unit 2.1**	**Unit 1.3**	**Unit 1.3**	
Core Learning	**Objectives:** Describe types translators Compare translators **Content:** Translators and Facilities of Languages	**Objectives:** Use arrays Write SQL queries **Content:** 1D and 2D Arrays Databases & SQL	**Objectives:** Revise key programming concepts **Content:** Programming fundamentals	**Objectives:** Write algorithms Describe searching and sorting **Content:** Algorithms	**Objectives:** Revise key concepts of network topologies and architecture **Content:** Network topologies and architecture	**Objectives:** Revise key concepts of network Protocols DNS **Content:** Network Protocols	**HALF TERM**
Opportunities for Challenge	High Demand Questions	High Demand Questions	High Demand Questions	High Demand Questions	High Demand Questions	High Demand Questions	
Assessment	Verbal/written Q&As	Verbal/written Q&As	Verbal/written Q&As	Verbal/written Q&As	Verbal/written Q&As	Verbal/written Q&As	

W/C	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	
Area of Study	**Papers 1 & 2**	**Papers 1 & 2**	**Papers 1 & 2**	**Papers 1 & 2**	**Papers 1 & 2**	**Papers 1 & 2**	
	Objectives: Consolidate knowledge and understanding of content and improve exam technique **Content:** Computer Systems Algorithms & Programming	**Objectives:** Consolidate knowledge and understanding of content and improve exam technique **Content:** Computer Systems Algorithms & Programming	**Objectives:** Consolidate knowledge and understanding of content and improve exam technique **Content:** Computer Systems Algorithms & Programming	**Objectives:** Consolidate knowledge and understanding of content and improve exam technique **Content:** Computer Systems Algorithms & Programming	**Objectives:** Consolidate knowledge and understanding of content and improve exam technique **Content:** Computer Systems Algorithms & Programming	**Objectives:** Consolidate knowledge and understanding of content and improve exam technique **Content:** Computer Systems Algorithms & Programming	**Easter**

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Opportunities for Challenge	Higher Demand Questions	Higher Demand Questions	Higher Demand Questions	Higher Demand Questions	Higher Demand Questions	Higher Demand Questions	
Assessment	Self-marked exam paper	Self-marked exam paper	Self-marked exam paper	Self-marked exam paper	Self-marked exam paper	Self-marked exam paper	