

Subject Long Term Plan Year 10

Temperance Term

W/C	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	HALF TERM
Area of Study	Unit 1.2.3 / 2.1.1	Unit 1.2.4 / 2.2.1	Unit 1.2.4 / 2.2.1	Unit 1.2.4 / 2.2.2	Unit 1.2.4 / 2.2.1	Unit 1.2.4 / 2.2.1	Unit 1.2.4 / 2.2.1	
Core Learning	<u>Objectives:</u> Recall units <u>Content:</u> Units Computational thinking	<u>Objectives:</u> Convert binary/denary <u>Content:</u> Denary – Binary Variables	<u>Objectives:</u> Convert binary/hex <u>Content:</u> Binary - Hexadecimal Operators	<u>Objectives:</u> Carry out binary operations <u>Content:</u> Binary operations Data types	<u>Objectives:</u> Describe ASCII/Unicode <u>Content:</u> Characters Sequences	<u>Objectives:</u> Describe how images represented digitally <u>Content:</u> Images Selection	<u>Objectives:</u> Describe how sounds represented digitally <u>Content:</u> Sounds Iteration	
Opportunities for Challenge	Detailed structure diagram	Harder calculations	Harder calculations	Harder calculations	Complex sequences	Multiple/nested selection	Nested Loops	
Assessment	Q&As / MC quiz	Q&As / MC quiz	Q&As / MC quiz	Q&As / MC quiz	Q&As / MC quiz	Q&As / MC quiz	Q&As / MC quiz	
W/C	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	CHRISTMAS	
Area of Study	Unit 1.2.5 / 2.2.3	Unit 1.2.3 / 2.2.3	Unit 1.1.3 / 2.2.3	Unit 1.1.1 / 2.2.3	Unit 1.1.1 / 2.2.3	Unit 1.1.2 / 2.4.1		
Core Learning	<u>Objectives:</u> Describe type of compression <u>Content:</u> Compression Strings	<u>Objectives:</u> Calculate data capacity <u>Content:</u> Data capacity Random Number	<u>Objectives:</u> Compare systems <u>Content:</u> Embedded Systems Arrays	<u>Objectives:</u> Describe function of CPU <u>Content:</u> CPU -function Procedures	<u>Objectives:</u> Describe F-D-E cycle <u>Content:</u> V N architecture F-D-E cycle Functions	<u>Objectives:</u> Construct logic tables <u>Content:</u> CPU - performance Boolean Logic		
Opportunities for Challenge	Less common functions	Harder calculations	Implement python dictionary	Explain task	Summarise task	Multiple gates		
Assessment	Q&As / MC quiz	Topic Test	Q&As / MC quiz	Q&As / MC quiz	Q&As / MC quiz	Topic Test		

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Justice Term

W/C	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	HALF TERM
Area of Study	Unit 1.2.1 / 2.1.2	Unit 1.2.1 / 2.1.2	Unit 1.2.2 / 2.2.3	Unit 1.2.2 / 2.2.3	Unit 1.3.1 / 2.2.3	Unit 1.3.1 / 2.3.1	
Core Learning	<p>Objectives: Compare RAM & ROM</p> <p>Content: Memory (RAM & ROM) Designing algorithm</p>	<p>Objectives: Describe virtual memory</p> <p>Content: Virtual Memory Correcting algorithms</p>	<p>Objectives: Compare Storage</p> <p>Content: Storage devices File handling</p>	<p>Objectives: Compare storage devices</p> <p>Content: Storage characteristics Records</p>	<p>Objectives: Compare LANs & WANs</p> <p>Content: Network types SQL</p>	<p>Objectives: Describe/explain factors which affect performance</p> <p>Content: Network performance Defensive design</p>	
Opportunities for Challenge	Complex algorithms	Explain task	Error-free implementation	Evaluate task	Compare & contrast task	Evaluate task	
Assessment	Q&As / MC quiz	Q&As / MC quiz	Q&As / MC quiz	Topic Test	Topic Test	Q&As / MC quiz	

W/C	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Easter
Area of Study	Unit 1.3.1 / 2.3.1	Unit 1.3.1 / 2.3.2	Unit 1.3.1 / 2.3.2	Unit 1.3.1 / 2.2.3	Unit 1.3.2 / 2.2.3	Unit 1.3.2 / 2.5.2	
Core Learning	<p>Objectives: Describe P2P and Client-Server networks</p> <p>Content: Client-Server Networks Input Validation</p>	<p>Objectives: Describe functions of network hardware</p> <p>Content: Network hardware Maintainability</p>	<p>Objectives: Describe DNS system</p> <p>Content: The Internet Testing (purpose / types)</p>	<p>Objectives: Compare Star/Mesh topologies</p> <p>Content: Topologies Identifying Errors</p>	<p>Objectives: Compare connection modes</p> <p>Content: Modes of connection Selecting test data</p>	<p>Objectives: Describe protocols / layers</p> <p>Content: Protocols / layers IDE</p>	
Opportunities for Challenge	Compare & contrast task	Extended answer	Discussion task	Compare & contrast task	Justify task	Explain task	
Assessment	Q&As / MC quiz	Q&As / MC quiz	Q&As / MC quiz	Q&As / MC quiz	Topic Test	Topic Test	

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Courage Term

W/C	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31	HALF TERM
Area of Study	Unit 1.4.1 / 2.5.1	Unit 1.4.1 / 2.5.1	Paper 1	Paper1			
Core Learning	<p>Objectives: Describe/explain security threats</p> <p>Content: Security: Threats1 Languages</p>	<p>Objectives: Describe/explain security threats</p> <p>Content: Security: Threats 2 Compilers &interpreters</p>	<p>Objectives:</p> <p>Content: Mock Exam Revision</p>	<p>Objectives:</p> <p>Content: Mock Exam Revision</p>			
Opportunities for Challenge	Compare & contrast task	Explain task	Harder Exam Questions	Harder Exam Questions			
Assessment	Q&As / MC quiz	Topic Test			Exam	Exam	

W/C	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37	Summer
Area of Study	Unit 1.4.2 / 1.6.1	Unit 1.4.2 / 1.6.1	Unit 1.5.1 / 1.6.1	Unit 1.5.2 / 1.6.1	Unit 1.5.2 / 1.6.1	Unit 1.5.2 / 1.6.1	
Core Learning	<p>Objectives: Describe/explain prevention of security threats</p> <p>Content: Security: Prevention 1 Ethical issues</p>	<p>Objectives: Describe/explain prevention of security threats</p> <p>Content: Security: Prevention 2 Cultural / Environmental</p>	<p>Objectives: Describe/explain functions of operating systems</p> <p>Content: Operating Systems 1 Privacy & Legal</p>	<p>Objectives: Describe/explain functions of operating systems</p> <p>Content: Operating Systems 2 DPA & CMA</p>	<p>Objectives: Describe/explain functions of utility Software</p> <p>Content: Utility Software 1 Copyright & Designs</p>	<p>Objectives: Describe/explain functions of utility Software</p> <p>Content: Utility Software 2 Software licenses</p>	
Opportunities for Challenge	LOR task	LOR task	LOR task	LOR task	LOR task	LOR task	
Assessment	Q&As / MC quiz	Topic Test	Q&As / MC quiz	Q&As / MC quiz	Q&As / MC quiz	Topic Test	