



SUBJECT: Curriculum Overview

Year 10

Half Term	Topic studied	What will I learn?	How will I be assessed?
Year 10 Autumn	Operating systems Programming	<ul style="list-style-type: none"> The purpose and functionality of operating systems User interface Memory management and multitasking Peripheral management and drivers User management o File management 	<p>Students are required to flip between Theory and Programming. One lesson will be on Theory, with the next lesson on Programming.</p> <p>After each unit is complete, pupils will be tested and a level awarded.</p> <p>Students will also receive a programming test twice per term. A level is awarded.</p>
Year 10 Spring	Utility software Ethics, legal, cultural and environmental impact. Programming	<p>Utility Software</p> <ul style="list-style-type: none"> The purpose and functionality of utility software Utility system software Encryption software Defragmentation Data compression <p>Ethics, legal, cultural and environmental impact.</p> <ul style="list-style-type: none"> Ethical, legal and cultural issues Privacy laws Data Protection Act Computer Misuse Act Copyright Designs and Patents Act Software Licences 	<p>Students are required to flip between Theory and Programming. One lesson will be on Theory, with the next lesson on Programming.</p> <p>After each unit is complete, pupils will be tested and a level awarded.</p> <p>Students will also receive a programming test twice per term. A level is awarded.</p>
Year 10 Summer	Computational thinking Designing Algorithms	<p>Computational thinking</p> <ul style="list-style-type: none"> Abstraction Decomposition Algorithmic thinking <p>Designing algorithms</p> <ul style="list-style-type: none"> Identify the inputs, processes and outputs for a problem Create, interpret, correct, complete and refine algorithms Pseudocode Flowcharts Reference language/high-level programming language Identify common errors Trace tables 	<p>Students are required to flip between Theory and Programming. One lesson will be on Theory, with the next lesson on Programming.</p> <p>After each unit is complete, pupils will be tested and a level awarded.</p> <p>(Summer Mock Test) Students will also receive a programming test twice per term. A level is awarded</p>