





Curriculum Overview for Computer Science Year 11

<p>Half Term 3 Algorithms Substantive Knowledge:</p> <ul style="list-style-type: none"> • Understand how a computer runs code • Understand what is meant by algorithmic thinking • Understand what is meant by decomposition • Understand what is meant by abstraction • Understand how to identify outputs • Understand how to identify inputs • Understand how to identify the processes required • Understand how to identify repeatable processes • Understand the purpose of a structure diagram • To be able to understand pseudocode • Understand what a flow chart is used for • Understand what the flow chart symbols mean • Understanding trace tables to check variables through a program 		<p>Model reading Reading out loud Skim and Scan of source information Decoding terms Etymology of key terms</p>
		<p>Computational thinking Sequence Decomposition Abstraction Algorithmic thinking Input Output Process Repeatable Process Structure diagram Pseudocode Flow chart Terminal Process Question Decision Input Output Sub program Trace Tables</p>
<p>Disciplinary Knowledge:</p> <ul style="list-style-type: none"> • To be able to break a problem down using decomposition and abstraction • To be able to take a problem and produce step-by-step instructions • Be able to produce a structure diagram • To be able to write a pseudocode solution • To be able to produce a flow chart to solve a problem • Be able to complete a trace table when running through a program 		<p>Formative assessment Knowledge checks Smart Revise Practice questions Summative assessment End of unit assessment</p>
		<p>Practice questions Revision tasks Research tasks</p>