





Curriculum Overview for Computer Science Year 8

<p>Half Term 3</p> <p>Computational thinking</p> <p>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 what a flow chart is used for • Understand what the flow chart symbols mean <p>Disciplinary knowledge:</p> <ul style="list-style-type: none"> • Be able to break a problem down using decomposition and abstraction • Be able to take a problem and produce step-by step instructions • Be able to produce a flow chart to solve a problem 		<p>Model reading</p> <p>Reading out loud</p> <p>Skim and Scan of source information</p> <p>Decoding terms</p> <p>Etymology of key terms</p>
		<p>Computational thinking</p> <p>Sequence</p> <p>Decomposition</p> <p>Abstraction</p> <p>Algorithm</p> <p>Flow chart</p> <p>Terminal</p> <p>Process</p> <p>Decision</p> <p>Input</p> <p>Output</p>
		<p>Formative assessment</p> <p>Producing Instructions</p> <p>Producing Flow-Charts</p> <p>Summative assessment</p> <p>End of unit assessment</p>
		<p>Revision tasks</p> <p>Research tasks</p>