



Computing: Year 11

Scheme of Learning	Assessments
<p>Half Term One: NEA Preparation</p> <p>The Overarching Inquiry: How do we solve a given problem using programming techniques?</p> <p>Review of programming techniques, how to analyse a project brief, design skills, a look at testing products and how to write a good evaluation.</p> <p>Key concepts:</p> <p>CS AO1: Understand and apply the fundamental principles and concepts of Computer Science, including abstraction, decomposition, logic, algorithms and data representation.</p> <p>CS AO2: Analyse problems in computational terms through practical experience of solving such problems, including designing, writing and debugging programs.</p> <p>CS AO3: Think creatively, innovatively, analytically, logically and critically.</p> <p>CS AO6: Apply Mathematical skills relevant to Computer Science.</p>	<p>Assessment One:</p> <p>Complete practice NEA project sections - these will be given feedback on how to improve so pupils will be prepared for the NEA project (AO1, AO2, AO3, AO6)</p> <p>These will be split in to 5 separate grades over the half term for:</p> <ul style="list-style-type: none">▪ Section 1: Analysis▪ Section 2: Design▪ Section 3: Development▪ Section 4: Testing▪ Section 5: Evaluation
<p>Half Term Two: NEA Project</p> <p>The Overarching Inquiry: How do we solve a given problem using programming techniques?</p> <p>The pupils will complete a 20 hour independent programming project based on a given brief, provided by the exam board. This project will incorporate skills in 5 sections of Analysis, Design, Development, Testing and Evaluation.</p>	<p>Assessment One:</p> <p>Complete NEA project sections will be assessed by the subject teacher based on the exam board mark criteria (AO1, AO2, AO3, AO6)</p> <p>These will be split in to 5 separate grades over the half term for:</p> <ul style="list-style-type: none">▪ Section 1: Analysis

<p>Key concepts:</p> <p>CS AO1: Understand and apply the fundamental principles and concepts of Computer Science, including abstraction, decomposition, logic, algorithms and data representation.</p> <p>CS AO2: Analyse problems in computational terms through practical experience of solving such problems, including designing, writing and debugging programs.</p> <p>CS AO3: Think creatively, innovatively, analytically, logically and critically.</p> <p>CS AO6: Apply Mathematical skills relevant to Computer Science</p>	<ul style="list-style-type: none"> ▪ Section 2: Design ▪ Section 3: Development ▪ Section 4: Testing ▪ Section 5: Evaluation
<p>Half Term Three: Revision – Exam 1</p> <p>The Overarching Inquiry: What are computer systems?</p> <p>Pupils will recap a range of topics from the exam 1 (Computer Systems) paper. These include systems architecture, memory, storage, networks, system security and software.</p> <p>Key concepts:</p> <p>CS AO4: Understand the components that make up digital systems, and how they communicate with one another and with other systems.</p> <p>CS AO5: Understand the impacts of digital technology to the individual and to wider society.</p>	<p>Assessment One:</p> <p>Quizizz test covering various exam 1 topics (AO4, AO5)</p> <p>Assessment Two:</p> <p>Mock exam based on past paper questions incorporating all key concepts from exam 1 (AO4, AO5)</p>
<p>Half Term Four: Revision – Exam 2</p> <p>The Overarching Inquiry: What is computational thinking?</p> <p>Pupils will recap a range of topics from the exam 2 (Computational Thinking and Algorithms) paper. These include algorithms, programming</p>	<p>Assessment one:</p> <p>Quizizz test covering various exam 2 topics (AO1, AO2, AO3, AO6)</p> <p>Assessment Two:</p> <p>Mock exam based on past paper</p>

<p>techniques, how to create robust programs, logic and data representation.</p> <p>Key concepts:</p> <p>CS AO1: Understand and apply the fundamental principles and concepts of Computer Science, including abstraction, decomposition, logic, algorithms and data representation.</p> <p>CS AO2: Analyse problems in computational terms through practical experience of solving such problems, including designing, writing and debugging programs.</p> <p>CS AO3: Think creatively, innovatively, analytically, logically and critically.</p> <p>CS AO6: Apply Mathematical skills relevant to Computer Science.</p>	<p>questions incorporating all key concepts from exam 2 (AO1, AO2, AO3, AO6)</p>
<p>Half Term Five: Revision – Tailored Topics</p> <p>The Overarching Inquiry: How do I get a good GCSE in Computer Science?</p> <p>Pupils will be given topics to revise based on analysis of their mock exam performance. This will incorporate both exam 1 and exam 2 material.</p> <p>Key concepts:</p> <p>CS AO1: Understand and apply the fundamental principles and concepts of Computer Science, including abstraction, decomposition, logic, algorithms and data representation.</p> <p>CS AO2: Analyse problems in computational terms through practical experience of solving such problems, including designing, writing and debugging programs.</p> <p>CS AO3: Think creatively, innovatively, analytically, logically and critically.</p> <p>CS AO4: Understand the components that make</p>	<p>Assessment One:</p> <p>Mock exam based on past paper questions incorporating key concepts from exam 1 and exam 2 (AO1, AO2, AO3, AO4, AO5, AO6)</p>

up digital systems, and how they communicate with one another and with other systems.

CS AO5: Understand the impacts of digital technology to the individual and to wider society.

CS AO6: Apply Mathematical skills relevant to Computer Science.