

## Year 11

Timing	Unit Title	Key Question	Knowledge	Assessing Understanding
Autumn Term	<b>P7 – Advanced Programming</b>	How do I tackle longer programs	<ul style="list-style-type: none"> <li>● 2d Array handling</li> <li>● Methods</li> <li>● Parameter Passing</li> <li>● Global and local variables</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>● AS-Style AM Challenges sheet to test students' ability to comprehend and modify a substantial program.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>● 2D array programming</li> <li>● Writing procedural and functional methods</li> <li>● Handling parameters</li> </ul> <p><b>Assessment point information</b> Progress data is collected and stored each lesson, along with comments on individuals, and will be taken together with marks from the written exercise.</p>
Autumn Term	<b>T7 – Translators and facilities of Languages</b>	How do computer languages work and how should they best be used?	<ul style="list-style-type: none"> <li>● Compilation / Interpretation / Assembly</li> <li>● Features of IDEs</li> <li>● SQL</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>● written exercise</li> <li>● progress is monitored and recorded during lessons.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>● Ability to write SQL queries</li> </ul> <p><b>Assessment point information</b> Progress data is collected and stored each lesson, along with comments on individuals, and will be taken together with marks from the written exercise.</p>

<p>Autumn Term</p>	<p><b>P8 – Robust Programming</b></p>	<p>How do we try to ensure that programs work</p>	<ul style="list-style-type: none"> <li>● Robust programming techniques</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>● progress is monitored and recorded during lessons.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>● Full and correct use of validation</li> <li>● Ability to test thoroughly</li> </ul> <p><b>Assessment point information</b> Progress data is collected and stored each lesson, along with comments on individuals.</p>
<p>Autumn Term</p>	<p><b>T8 – Security Basics</b></p>	<p>What are the threats to security and how do we deal with them?</p>	<ul style="list-style-type: none"> <li>● Social engineering</li> <li>● Technical flaws and attacks</li> <li>● Software and methods for keeping safe</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>● Google tests to check understanding</li> <li>● progress is monitored and recorded during lessons.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>● Ability to analyse practical situations</li> </ul> <p><b>Assessment point information</b></p>

				Progress data is collected and stored each lesson, along with comments on individuals, and will be taken together with marks from the Google tests.
	<b>P9 - Algorithms</b>	What are algorithms and how are they used most effectively	<ul style="list-style-type: none"> <li>● Standard algorithms – sorting and searching</li> <li>● Use of algorithms – decomposition and abstraction</li> <li>● Testing of algorithms and standard pseudocode notation</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>● formal written test</li> <li>● progress is monitored and recorded during lessons.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>● Decomposition of given problems</li> <li>● Dry running</li> </ul> <p><b>Assessment point information</b> Progress data is collected and stored each lesson, along with comments on individuals, and will be taken together with marks from the formal test.</p>

<p>Autumn Term</p>	<p><b>N1 – PP Preparation</b></p>	<p>How do we maximise our chances in the PP</p>	<ul style="list-style-type: none"> <li>● Programming revision</li> <li>● ‘Telling the story’ during implementation</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>● mock project exercise.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>● Writing and running test plans</li> <li>● Writing implementation story</li> </ul> <p><b>Assessment point information</b></p> <ul style="list-style-type: none"> <li>● In-lesson data is collected</li> </ul>
<p>Spring Term</p>	<p><b>CR – continuous Revision</b></p>	<p>How is my knowledge in the theory units?</p>	<ul style="list-style-type: none"> <li>● Content as chosen by Department as potentially problematic</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>● CR sheets are marked and new CR sheets generated based on performance.</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>● Exam technique</li> </ul> <p><b>Assessment point information</b></p> <ul style="list-style-type: none"> <li>● The grades for these sheets will feed into an AP.</li> </ul>

Spring Term	<b>Programming Project</b>	Can I solve a larger problem?	<ul style="list-style-type: none"> <li>● Programming Skills</li> <li>● Testing</li> </ul>	<p><b>How understanding is assessed:</b> No assessment</p> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>● Programming skills in C#</li> <li>● A-Level Project skills developed</li> </ul> <p><b>Assessment point information</b> No assessment</p>
Spring/summer Term	<b>Final Revision</b>	<p>DO I know all the material?</p> <p>Can I get all the marks?</p>	<ul style="list-style-type: none"> <li>● All GCSE Theory for both Units</li> </ul>	<p><b>How understanding is assessed:</b></p> <ul style="list-style-type: none"> <li>● Weekly homeworks</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>● Exam technique</li> </ul> <p><b>Assessment point information</b> Grades from the sheets feed into the final AP</p>