

Year 11

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

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

				<p>Assessment point information Progress data is collected and stored each lesson, along with comments on individuals, and will be taken together with marks from the Google tests.</p>
	<p>P9 - Algorithms</p>	<p>What are algorithms and how are they used ,most effectively</p>	<ul style="list-style-type: none"> ● Standard algorithms – sorting and searching ● Use of algorithms – decomposition and abstraction ● Testing of algorithms and standard pseudocode notation 	<p>How understanding is assessed :</p> <ul style="list-style-type: none"> ● Formal written test ● Progress is monitored and recorded during lessons <p>Skills</p> <ul style="list-style-type: none"> ● Decomposition of given problems ● Dry running <p>Assessment point information 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>N1 – PP Preparation</p>	<p>How do we maximise our chances in the PP</p>	<ul style="list-style-type: none"> • Programming revision • ‘Telling the story’ during implementation 	<p>How understanding is assessed :</p> <ul style="list-style-type: none"> • Mock project exercise <p>Skills</p> <ul style="list-style-type: none"> • Writing and running test plans • Writing implementation story <p>Assessment point information</p> <ul style="list-style-type: none"> • In-lesson data is collected
<p>Spring Term</p>	<p>CR – continuous Revision</p>	<p>How is my knowledge in the theory units?</p>	<ul style="list-style-type: none"> • Content as chosen by Department as potentially problematic 	<p>How understanding is assessed :</p> <ul style="list-style-type: none"> • CR sheets are marked and new CR sheets generated based on performance <p>Skills</p> <ul style="list-style-type: none"> • Exam technique <p>Assessment point information</p> <ul style="list-style-type: none"> • The grades for these sheets will feed into an AP.

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