

Year 13

Timing	Unit Title	Key Question	Knowledge	Assessing Understanding
Autumn Term	Data Structures	How is data stored on a computer system?	<ul style="list-style-type: none"> • Lists • Linked lists • Stacks and Queues • Trees • Graphs 	<p>How understanding is assessedd:</p> <ul style="list-style-type: none"> • set exercises throughout unit. <p>Skills</p> <ul style="list-style-type: none"> • Ability to analyse a situation and propose storage solution • Technical ability to structure data storage <p>Assessment point information Exercises, together with BM data, feed into an AP.</p>
Autumn Term	Databases	How are Databases structured?	<ul style="list-style-type: none"> • Table-based systems • Normalisation and table structure • Advantages of Databases • SQL 	<p>How understanding is assessed:</p> <ul style="list-style-type: none"> • in-lesson BM data, based on a series of challenging exercises • homework task. <p>Skills</p> <ul style="list-style-type: none"> • Ability to create a database structure from a given situation <p>Assessment point information</p> <ul style="list-style-type: none"> • The grades for the homework will feed into an AP.

	Advanced Methods	Sorting, searching and Traversals	<ul style="list-style-type: none"> • Quicksort • Merge Sort • Dijkstra • A* 	<p>How understanding is assessed:</p> <ul style="list-style-type: none"> • end of unit test. <p>Skills Ability to write pseudocode for these</p> <p>Assessment point information Test marks feed into an AP</p>
	OOP	How does OOP aid Development?	<ul style="list-style-type: none"> • Comparison with procedural programming • Encapsulation • Inheritance • Polymorphism 	<p>How understanding is assessed:</p> <ul style="list-style-type: none"> • homework exercise. <p>Assessment point information Homework feeds into the Assessment point, together with BM data.</p>
Spring Term	Project	Can I run the full SA Cycle and write a program for someone else?	<ul style="list-style-type: none"> • Analysis • Design • Implementation • Testing • Documentation • Evaluation 	<p>How understanding is assessedes:</p> <ul style="list-style-type: none"> • via the Board's MS. <p>Skills</p> <ul style="list-style-type: none"> • Programming • Project Management <p>Assessment point information Progress BM data is fed into an AP</p>

<p>Spring/Summer Term</p>	<p>Final Revision</p>	<p>What don't I know? How do I get the marks?</p>	<ul style="list-style-type: none"> • All Theory Topics 	<p>How understanding is assessed:</p> <ul style="list-style-type: none"> • weekly homeworks. <p>Skills</p> <ul style="list-style-type: none"> • Various <p>Assessment point information Weekly marks feed into an AP</p>
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