

Year 13

Timing	Unit Title	Key Question	Knowledge	Assessing Understanding
Autumn Term	Data Structures	How is data stored on a computer system?	• Lists • Linked lists • Stacks and Queues • Trees • Graphs	How understanding is assessedd : • Set exercises throughout unit Skills • Ability to analyse a situation and propose storage solution • Technical ability to structure data storage Assessment point information Exercises, together with BM data, feed into an AP.
Autumn Term	Databases	How are Databases structured?	• Table-based systems • Normalisation and table structure • Advantages of Databases • SQL	How understanding is assessed : • In-lesson BM data, based on a series of challenging exercises • Homework task Skills • Ability to create a database structure from a given situation Assessment point information • The grades for the homework will feed into an AP.

	Advanced Methods	Sorting, searching and Traversals	• Methods for complex data structures including • Dijkstra • A*	How understanding is assessed : Homework exercises Skills Ability to write pseudocode for these Assessment point information Marks feed into an AP
	OOP with recursion	How can recursion be used with OOP	• Comparison with procedural programming	How understanding is assessed : • Written test Assessment point information Test feeds into the Assessment point, together with BM data.
Spring Term	Project	Can I run the full SA Cycle and write a program for someone else?	• Analysis • Design • Implementation • Testing • Documentation • Evaluation	How understanding is assessedesd : • Via the Board's MS Skills • Programming • Project Management Assessment point information Progress BM data is fed into an AP

Spring/Summer Term	Final Revision	What don't I know? How do I get the marks?	All Theory Topics	How understanding is assessed : - Weekly homeworks Skills - Various Assessment point information Weekly marks feed into an AP
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