

YEAR	TERM 1 (Autumn)	TERM 2 (Spring)	TERM 3 (Summer)
YEAR 12	<p>Theory:</p> <ul style="list-style-type: none"> The fundamentals of data structures inc arrays & text files Number & information coding systems Output methods, media & devices Representing images, sound etc Sound: midi Compression Encryption 	<ul style="list-style-type: none"> Theory of computation Finite state machines (fsms) Systematic approach to problem solving Fundamentals of computer systems, communication and networking Logic gates and boolean algebra Internal hardware components of a computer 	<ul style="list-style-type: none"> Stored program concept & the structure and role of the processor and its components External hardware devices Consequences of uses of computing NEA coursework: programming skills
YEAR 13	<ul style="list-style-type: none"> NEA non-exam assessment – computing practical project Analysis, design, implementation evaluation, finalise nea abstract data types floating point form: errors, normalisation and other characteristics checksums 	<ul style="list-style-type: none"> Stack frames: recursive techniques Interupts Programming paradigms Finite state machines Regular expressions and language Backus-aur form Analogue / digital, vector graphics Fundamentals of databases conversion 	<ul style="list-style-type: none"> Systematic approach to problem solving Turing machine The halting problem Fundamentals of functional programming Big data Revision External exams