

What are the aims and intentions of this curriculum?

Students are to complete the Programming Project part of their course which requires them to analyse, design, create, test and evaluate a solution to a particular problem. The students will then cover all Computer Systems topics and Algorithm topics which will be on their two exam papers.

Term	Topics	Knowledge covered	Skills developed	Assessment
Autumn 1	Programming Project - Live NEA	Students will work through a live NEA set from the exam board. Students are required to use a range of skills to plan, design, create, test and evaluate a solution they created to a problem using computational thinking methods.	Students are to plan, design, create, test and evaluate a solution to a problem.	NEA report
Autumn 2	Programming Project - Live NEA	Students will work through a live NEA set from the exam board. Students are required to use a range of skills to plan, design, create, test and evaluate a solution they created to a problem using computational thinking methods.	Students are to plan, design, create, test and evaluate a solution to a problem.	NEA report Mock exam
Spring 1	System architecture Memory Storage Wired and Wireless Technologies Network topologies, protocols and layers	Students will cover a range of topics within the computer systems area of the course. Students will complete past exam questions and work through their revision guides to increase knowledge too.	Students will cover a range of topics and will develop the ability to answer a range of exam style questions.	Mock exam
Spring 2	System security System software Ethical, legal and cultural considerations Algorithms	Students will cover a range of topics within the computer systems area of the course. Students will complete past exam questions and work through their revision guides to increase knowledge too.	Students will cover a range of topics and will develop the ability to answer a range of exam style questions.	Past exam questions
Summer 1	Programming techniques Producing robust programs Computational logic Translators and facilities of languages Data representation	Students will cover a range of topics within the computer systems area of the course. Students will complete past exam questions and work through their revision guides to increase knowledge too.	Students will cover a range of topics and will develop the ability to answer a range of exam style questions.	Past exam questions
Summer 2				