



## Programming Techniques

What code is required to read and write to external files? Why are subroutines useful within our code? Why are arrays used with a computer program?



## System Security

What are the specific threats to a network? What specific methods of prevention could we use to prevent those threats?

## Ethical, legal, environmental

Which stakeholders are affected by Ethical, Cultural, Environmental and Privacy issues related to technology?

When would Open Source or Proprietary software be used?



## Translators and languages

What's the difference between Machine code, assembly language and a high level programming language? What is the purpose of translators for your code? How useful are IDE's when creating a program?

## Exam Practice

Past paper questions, revision timetable, mark schemes and exam technique

# YEAR 11 ROADMAP



## Algorithms

When would you use a Linear rather than a binary search algorithm? What are the main steps of a Bubble, Merge and Insertion sort algorithm? How could you display an algorithm visually?



## System Software

What are the key functions of Operating Systems? What is the purpose of Utility software? How does Compression, Defragmentation, encryption and back-ups benefit a device?

## Producing Robust programs

How can input sanitisation, authentication, Maintainability of code (Comments, Indentation) and Testing (Iterative, final) be helpful in preventing errors?

## Accelerated Progress

Topic revision, group and individual tuition, Weekly tests, Bespoke Booklets from mock exam (areas of weakness)



## EXAM SUCCESS!

TARGET GRADES MET AND EXCEEDED – PROGRESS MADE!