## Curriculum Overview

Subject: Computer Science

Year Group: 10



Students will begin by understanding and applying the principles of Computer Science including abstraction, decomposition, logic, and algorithms through practical experience of solving problems, including designing, writing, and debugging programs.

They will then focus on topics for GCSE paper 1. Here they will develop their knowledge of the components that make up digital systems and how they communicate with one another and with other systems. They will also understand the impacts of digital technology to the individual and to wider society.

TERM 1	TERM 2	TERM 3
KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS
Programming concepts:	1.8 Environmental, Ethical, Cultural and Legal 1.1 Systems Architecture 1.2 Memory 1.3 Storage	<ul><li>1.4 Wired &amp; Wireless Networks</li><li>1.5 Network topologies, protocols and layers</li><li>1.6 System Security</li><li>1.7 System Software</li></ul>
To create:		
KEY ASSESSMENTS	KEY ASSESSMENTS	KEY ASSESSMENTS
Half term 1: Intro to programming assessment	Half term 1: 1.8, 1.1, unit assessment	Half term 1: 1.4, 1.5, unit assessment
Half term 2: Iteration and Lists assessment	Half term 2: 1.2, 1.3, unit assessment	Half term 2: 1.6, 1.7, unit assessment

Extended reading suggestions and external resources:

OCR J276 Specification - OCR GCSE Computer Science J276 Specification
BBC Bitesize KS4 - GCSE Computer Science - OCR - BBC Bitesize
Craig n Dave Videos - Craig'n'Dave - YouTube