COMPUTER SCIENCE

YEAR 12

AUTUMN 1

SLR 23 Programming Techniques (includes programming skills building)	SLR 1 Structure and function of a processor	SLR 18 Thinking Abstractly (includes programming skills building)	SLR 2 Types of processor	Prior Learning KS3-4 Python programming, abstraction in computing, how a computer works.

AUTUMN 2

SLR 19 Thinking Ahead (includes programming skills building)	SLR 3 Inputs, output and storage	NEA – Programming Project (includes programming skills building)	SLR 4 Operating systems - systems software.	Prior Learning KS3-4 Von Neumann architecture.

SPRING 1

SLR 24 Computational Methods (includes programming skills building)	SLR 5 Application generation	NEA – Programming Project (includes programming skills building)	SLR 6 Software Development	Prior Learning KS3-4 Python programming.

SPRING 2

NEA – Programming Project (includes programming skills building)	SLR 7 Types of programming language	NEA – Programming Project (includes programming skills building)	SLR 8 Introduction to programming	Prior Learning KS3-4 Python programming.

SUMMER 1

SLR 20 Thinking Procedurally (includes programming skills building)	SLR 9 Compression, encryption and hashing	NEA – Programming Project (includes programming skills building)	SLR 10 Databases	Prior Learning KS3-4 Python programming.

SUMMER 2

SLR 22 Thinking Concurrently (includes programming skills building)	SLR 11 Networks	NEA – Programming Project (includes programming skills building)	SLR 12 Web Technologies	Prior Learning KS3 – HTML/CSS, KS3/4 Network topologies/protocols.

CAREERS LINKS

Software engineer, IT technician, software developer, programmer, games developer. Database architect, web developer.

CHARACTER LINKS

Performance virtues of determination, motivation and perseverance are fostered through trial and error activities when accessing new information and skill.
Critical thinking and judgement traits (intellectual virtues) are cultivated in all units of work.

KEY ASSESSMENT DATES

Students complete end of unit assessments for the following units: SLR23, SLR1, SLR18, SLR2, SLR19, SLR 3, SLR4, SLR24, SLR5, SLR6, SLR7, SLR8, SLR20, SLR9, SLR10, SLR22, SLR22, and SLR12. Assessments check skills, understanding and knowledge. Extra assessments e.g. mocks are also set in line with the school assessment calendar.