



KS5 Long Term Plan

Subject: Computer Science

Exam Board OCR H446

2022/2023

Curriculum Statement of Intent

- Computer science KS5 builds on the skills and knowledge of KS4. We follow national curriculum; The exam board is OCR. By the end of two years, we intend all students to have strong content knowledge and be equipped with the necessary skills needed to succeed in their exams. The department aims to encourage all students to develop excellence in computing and to work in a confident and independent manner. The department achieves this through providing a supportive learning environment and encouraging all students to be the best that they can be. We prepare our students to achieve outstanding result underpinned by our mission statement of achieving excellence and try to ensure students feel confident to progress to university / relevant apprenticeships.

Curriculum Statement of Implementation

We will achieve the above mentioned intend by:

- Ensuring pupil progress in every lesson.
- No student should be left behind, support educational journey of all students (including SEN, EHCP) in safe and secure environment
- Covering curriculum content and making sure students have sound knowledge.
- Mapping every lesson to curriculum content. Students knowing the learning journey and the big picture.
- Promoting independent activities / tasks to help students become independent learners.
- Ensuring our students can articulate in the digital world knowing the pros and cons of technology in modern world.
- Working online and teacher tracking their progress using showbie. Students always have access to their work and can see their progress.
- Regular AFL in lessons to check student knowledge.
- Summative assessments every half term to recap / test learning.

	Autumn 1	Autumn 2	Spring 1
Yr. 12	<u>Topics</u> 2.2.1 Programming techniques 2.1.1 Thinking abstractly 1.4.1 data types 1.1.1 Structure and function of the processor 1.4.3 Boolean Algebra	<u>Topics</u> 2.1.2 Thinking ahead 2.2.1 Programming techniques 1.1.1 Structure and function of the processor 1.4.3 Boolean Algebra 1.1.2 Types of processors	<u>Topics</u> 2.1.4 Thinking logically 2.2.1 Programming techniques 1.3.2 Databases 1.1.3 Input, output and storage
Assessments	Self-assessment of tasks (AfL) Teacher assessment of exam style questions (AoL) Autumn 1 Assessment	Self-assessment of tasks (AfL) Teacher assessment of exam style questions (AoL) Autumn 2 Assessment	Self-assessment of tasks (AfL) Teacher assessment of exam style questions (AoL) Spring 1 Assessment
	Spring 2	Summer 1	Summer 2
Yr. 12	<u>Topics</u> 2.1.3 Thinking procedurally 1.4.2 Data Structures 2c. NEA 1.3.4 Web Technologies 2.1.5 Thinking concurrently	<u>Topics</u> 1.4.2 Data Structures 2c. NEA 1.2.1 System Software 1.2.3 Software Development	<u>Topics</u> 2.3.1 Algorithms 2c. NEA 1.2.2 Application Generation 1.2.4 Types of Programming Language
Assessments	Self-assessment of tasks (AfL) Assessment	Self-assessment of tasks (AfL) Teacher assessment of exam style questions (AoL) Assessment	Self-assessment of tasks (AfL) Teacher assessment of exam style questions (AoL) EOY Assessment

	Autumn 1	Autumn 2	Spring 1
Yr. 13	Topics 1.3.1 Compression, Encryption and Hashing 1.5.1 Computing related legislation 2.3.1 Algorithms 2.2.2 Computational methods NEA	Topics 1.3.3 Networks 2.2.2 Computational methods 2c. NEA	Topics 1.5.2 Moral and ethical Issues 2.2.2 Computational methods 2c. NEA
Assessments	Self-assessment of tasks (AfL) Teacher assessment of exam style questions (AoL)	Self-assessment of tasks (AfL) Teacher assessment of exam style questions (AoL)	Self-assessment of tasks (AfL) Teacher assessment of exam style questions (AoL)
	Spring 2	Summer 1	Summer 2
Yr. 13	Revision	Revision	Exam Season
Assessments	Self-assessment of tasks (AfL) Peer assessment of exam style questions (AfL) Teacher assessment of exam style questions (AoL) PPE		