



# **KS5 Long Term Plan**

**Subject: Computer Science**

**Exam Board OCR H446**

**2021/2022**

## **Curriculum Statement of Intent**

Computer science KS5 builds on the skills and knowledge of KS4 computer science. 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 an interest in computing and to work in a confident and independent manner. We strive to equip students with the practical and theoretical skills necessary to flourish in the world of work. The department achieves this through providing a supportive learning environment and challenging all students to be the best that they can be.

## **Curriculum Statement of Implementation**

We will achieve the above mentioned intend by:

- Having engaging and challenging lessons, creating a love for the subject.
- Ensuring pupil progress in every lesson, no student should be left behind.
- Covering curriculum content and making sure students have sound, in-depth knowledge.
- Mapping every lesson to curriculum content.
- Promoting independent activities / tasks to help students become independent learners.
- Students completing and reflecting on their PLCs every half term.
- Working online and teacher marking their progress using showbie.
- Regular formative tests to check student knowledge.
- Summative assessments every half term to recap / test learning.

	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>
<b>Yr. 12</b>	<u>Topics</u> 2.2.1 Programming techniques 1.4.3 Boolean Algebra 2.1.1 Thinking abstractly	<u>Topics</u> 1.2.3 Software Development 1.2.4 Types of Programming Language 2.1.2 Thinking ahead	<u>Topics</u> 1.1.3 Input, output and storage 1.3.2 Databases 1.3.4 Web Technologies
<b>Assessments</b>	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
	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
<b>Yr. 12</b>	<u>Topics</u> 2.1.3 Thinking procedurally 1.4.2 Data Structures 2c. NEA	<u>Topics</u> 2c. NEA 1.4.2 Data Structures 2.3.1 Algorithms	<u>Topics</u> 2.3.1 Algorithms 2c. NEA 2.1.4 Thinking logically
<b>Assessments</b>	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

	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>
<b><u>Yr. 13</u></b>	<b><u>Topics</u></b> 1.3.1 Compression, Encryption and Hashing 1.1.1 Structure and function of the processor 1.5.1 Computing related legislation 1.4.1 Data Types 2.2.2 Computational methods 2c. NEA	<b><u>Topics</u></b> 2.1.4 Thinking logically 2.1.5 Thinking concurrently 1.2.1 Systems Software 1.2.2 Applications Generation 1.3.3 Networks 2c. NEA	<b><u>Topics</u></b> 1.5.2 Moral and ethical Issues 1.1.2 Types of processor 1.2.1 Systems Software 1.2.2 Applications Generation Skills 2c. NEA
<b>Assessments</b>	Self-assessment of tasks (AfL) Teacher assessment of exam style questions (AoL) MOCKS	Self-assessment of tasks (AfL) Teacher assessment of exam style questions (AoL)	Self-assessment of tasks (AfL) Teacher assessment of exam style questions (AoL)
	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
<b>Yr. 13</b>	Revision	Revision	Exam Season
<b>Assessments</b>	Self-assessment of tasks (AfL) Peer assessment of exam style questions (AfL) Teacher assessment of exam style questions (AoL) PPE		

--	--	--	--