



## ***KS5 Computer Science A Level Curriculum Mapping***

The key stage 5 curriculum builds on knowledge gained from Key Stage 4 and provides the technical knowledge and experience required to progress into higher education and the world of work. The aims of the qualification is to enable learners to:

- Understand and apply the fundamental concepts and principles of Computer Science abstraction, decomposition, logic, algorithms and data representation
- Analyse problems in computational terms through practical problem solving experience
- Develop the capacity for thinking creatively, innovatively, analytically, logically and critically
- See relationships between different aspects of computer science
- Application of mathematic skills
- Articulate the individual (moral), social (ethical), legal and cultural opportunities and risks of digital technology.

	<i>AUTUMN TERM</i>	<i>SPRING TERM</i>	<i>SUMMER TERM</i>
Yr12	1.4.1 Data Types  1.4.3 Boolean Algebra  1.2.3 Software Development  2.1.1 Thinking abstractly  2.1.2 Thinking ahead  2.2.1 Programming techniques	1.3.4 - Web technologies  2.1.3 Thinking procedurally  2.1.4 Thinking logically  2.1.5 Thinking concurrently  <b>NEA</b> 3.1. Analysis of the problem  3.2 Design of the solution	1.1.1 Structure and function of the processor  1.1.2 Types of processor  1.1.3 Input, output and storage  <b>NEA</b> 3.3 Developing the solution  3.4 Evaluation (20 marks)
	<b>Homework Tasks, Achievement Tests, End of Unit Assessments</b>	<b>Homework Tasks, Achievement Tests, End of Unit Assessments, NEA section marks</b>	<b>Homework Tasks, Achievement Tests, End of Unit Assessments, Year 12 exam, NEA result</b>



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Yr13	1.1.1 Structure and function of the processor 1.1.2 Types of processor 1.1.3 Input, output and storage  <b>NEA</b>  3.3 Developing the solution  3.4 Evaluation	1.3.4 Web Technologies  1.3.3 Networks  1.3.2 Databases  2.2.2 Computational methods  2.3.1 Algorithms	1.2.2 Applications Generation  1.2.1 Systems Software  1.2.4 Types of Programming Language  2.3.1 Algorithms
	<b>Homework Tasks, Achievement Tests, End of Unit Assessments, Mock exam</b>	<b>Homework Tasks, Achievement Tests, End of Unit Assessments, Mock exam</b>	<b>Homework Tasks, Achievement Tests, End of Unit Assessments, Revision tests - A-level exam</b>