

Subject and year group: Computer Science AS Level KS5	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic/Unit to be studied	Split teaching with 2 teachers. Teacher 1 (2 hours a week will deliver content from unit 1: Computing principles Teacher 2 (2 hours a week will deliver content from unit 2: Algorithms and problem solving					
Subject Content Outline	Unit 1: The characteristics of contemporary processors, input, output and storage devices Unit 2: A-level project analysis	Unit 1: Software and software development Unit 2: A-level project design and planning	Unit 1: Exchanging data Unit 2: A-level project creation and testing	Unit 1: Data types, data structures and algorithms Unit 2: A-level project evaluation	Unit 1: Legal, moral and ethical issues and revision Unit 2: Revision	A-Level exams
Aims/Assessment Objectives	<p>Students must: (% in GCE in brackets)</p> <p>AO1 Demonstrate knowledge and understanding of the principles and concepts of computer science, including abstraction, logic, algorithms and data representation. (35 %)</p> <p>AO2 Apply knowledge and understanding of the principles and concepts of computer science including to analyse problems in computational terms. (30 %)</p> <p>AO3 Design, program and evaluate computer systems that solve problems, making reasoned judgements about these and presenting conclusions. (35 %)</p>					
Assessment	On-going closing the gap assessments on tasks related to content taught. Tasks to have same rigour as exams.	Assessment week this half to test content learnt so far. Different assessments for each theme	PPE exam week and on-going closing the gap assessments on tasks related to content taught. Tasks to have same rigour as exams.	PPE week and On-going closing the gap assessments on tasks related to content taught. Tasks to have same rigour as exams.	On-going closing the gap assessments on tasks related to content taught. Tasks to have same rigour as exams.	Summer exams for A Level – all students to sit.

Cross curricular opportunities	Content from the specification as follows: Numeracy/Maths in aspects of both units, e.g. binary algebra and logical thinking ICT: Impact of technology on society					
Social, moral, spiritual and cultural	Throughout the study of Computer Science, students are encouraged to balance their arguments with moral dilemmas that conflicting stakeholders might have. A fifth of unit 1 is dedicated to this topic area. Students explore the impact on society as part of the course.					
Homework	Previous past exam papers and research/reading tasks. Worksheets/Case studies/Mind maps/Preparation Pies/Revision etc. Project work	Previous past exam papers and research/reading tasks. Worksheets/Case studies/Mind maps/Preparation Pies/Revision etc. Project work	Previous past exam papers and research/reading tasks. Worksheets/Case studies/Mind maps/Preparation Pies/Revision etc. Project work	Previous past exam papers and research/reading tasks. Worksheets/Case studies/Mind maps/Preparation Pies/Revision etc. Project work	Previous past exam papers and research/reading tasks. Worksheets/Case studies/Mind maps/Preparation Pies/Revision etc. Project work	Revision