

Edexcel GCSE COMPUTER SCIENCE Curriculum Overview Key Stage 4 - Year 11

Year 11 Computer Science	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic/Unit to be studied	Problem Solving Programming	Controlled Assessment	Controlled Assessment	Controlled Assessment	Revision for Final Exam	
Subject Content Outline	<p>Students should understand how computer systems work and design, implement and analyse algorithms for solving problems</p> <p>Students must be able to design, read, write and debug programs. They must be able to apply their skills to solve real problems and produce robust programs.</p>	<p>This component tests students' skills in responding to computer science problems.</p> <p>The project will require students to create a program that will include the following:</p> <ul style="list-style-type: none"> ● data input and storage ● processing data ● producing output based on processed data. 	<p>This component tests students' skills in responding to computer science problems.</p> <p>The project will require students to create a program that will include the following:</p> <ul style="list-style-type: none"> ● data input and storage ● processing data ● producing output based on processed data. 	<p>This component tests students' skills in responding to computer science problems.</p> <p>The project will require students to create a program that will include the following:</p> <ul style="list-style-type: none"> ● data input and storage ● processing data ● producing output based on processed data. 	To revise the chapters covered throughout the course in preparation for their examination	

Aims/Assessment Objectives	<p>To be able to identify the characteristics of different programming languages To be able to use programming techniques appropriately</p> <p>Students should understand how computer systems work and design, implement and analyse algorithms for solving problems</p>	Students must submit a report of the development, testing and evaluation of their program together with their program.	Students must submit a report of the development, testing and evaluation of their program together with their program.	Students must submit a report of the development, testing and evaluation of their program together with their program.	<p>To be able to apply their knowledge effectively to enable them to gain high marks in the examination.</p> <p>To understand the structure of exam questions and how to approach them.</p>	
Assessment	Practice Controlled Assessment Tasks	NA	NA	NA	Examination Questions on Chapter 1,2,3,4,5,6	
Cross curricular opportunities	<p>Maths skills in solving computational problems</p> <p>English – Written Report</p> <p>English – Written Examination Questions</p>					
Social, Moral, Spiritual, Cultural	<p>Opportunities to work collaboratively with other students</p> <p>Understanding of different types of hackers and the moral dilemmas associated.</p>					
Homework	As set by teacher	As set by teacher	As set by teacher	As set by teacher	As set by teacher	As set by teacher