	What will I learn?	How will I learn it?	Why is it important	Why am I learning this now?
			that I learn this?	
OCR GCSE (9–1) in				
Computer Science				
<u>(J277) Year 11</u>				
1277/01: Computer	You will look at how	Through Enquiry	To understand	You will learn how
systems	computer use primary	and simulator-	the importance	memory is used by a
Systems	and secondary storage	based work using	of different	computer system to store
	and how memory is	the Little Man	types of	information and how it is
	used by computers.	Computer.	memory.	retrieved.
	You will learn about	Through practical	To understand	This unit will build on
	network security both	and theory-based	the importance	your knowledge of
	physical and software	study. Both	of keeping data	computer networks from
	baseu.	hands on builds	secure.	new concents
		nanas on bunas.		new concepts.
	You will learn about the	Through practical	To understand	This unit will build on
	modern computer	based work using	how a modern	your knowledge of
	systems architecture.	a simulator of the	CPU carries out	computer components
	This includes the CPU	CPU you will	its functions in a	from KS2 and introduce
	embedded systems and	registers are used	consistent way.	you to new more detailed
	the fetch-decode-	registers are used.		concepts.
	execute cycle.			
	You will look at systems	Computer systems	To appreciate	You will learn how
	software currently in	use system	the functions of	programs work together
	make operation more	many of the	system and how	deconstructing a
	user-friendly and	functions are	they are carried	problem, it is easier to
	robust.	hidden from us.	out.	solve it.
	You will study Ethical	Modern systems	To see the	In order to fix the
	legal, cultural and	use the planets	impact even	problem of pollution we
	environmental	resources. You will	small devices,	need to understand how
	impacts of digital	investigate the	have on the	it has come about in the
	technology in the	impact it is having	global	modern world. Use of
	modern world.	on the world.	environment.	rare metals in computers.
Practical	You will undertake a	Using the Python	You will become	This is an extended unit
Programming	programming task,	programming	an effective and	over the two years of the
Project	to solve a problem (or	language, you will	efficient	course and will be
	problems), during the	be set a problem	programmer	Tundamental in your
	draw on the content in	to write a program	needed to solve	computer work and how
	both components		a computational	to use computer systems
	(J277/01 & J277/02)		problem.	to solve a real-world
	when engaged in the		. 	problem.
	Practical Programming			
	Project.			

Revision for units J277/01 and J277/02	You will carry out revision tasks to prepare for the two 1 hour 30 min examinations.	Using exam style questions and past papers you will become proficient	By the end of the two years your knowledge of Computer	By preparing for the examinations using past paper questions, you will be in the best position to
		at answering Computer Science style questions.	Science topics will be tested to check your understanding of the subject.	achieve your target.