



		_			
Subject	Year			Term	
Computer Science	12			Summer	
Торіс					
Programming, exchanging data, coursework					
Content - Intent					
Prior Learning (Topic) Programming, system software,				vare, Computational	
	thinking, software development				
Programming. The use of an IDE to develop/debug a program, and the					
fundamentals of programming including recursion and					
the concepts of OOP, while recognising that some students may have had little					
previous experience of programming and					
others will already be seasoned programmers.					
Exchanging data. compression and encryption, databases and SQL, transaction					
processing.					
Program development for component 3 of the A level, including analysis, design,					
implementation and evaluation					
Future Learning	Network, cou	urs	sework		
What Knowledge and Ski				our understanding be	
Taught (Implementation)				and recorded (Impact)	
Start of the coursework project,			Drafts of analysis, design and		
analysis, design, implementation and			development of software to be handed		
evaluation			in and marked. On going intervention		
			and marking of coursework as it		
			arises. Year 12 mock exam		
E-R diagrams, SQL to select, insert,			Worksheets and homework sheets		
edit, delete records. Normalisation			sourced form PGonline, in the style of		
through first, and second normal form			exam questions. End of unit		
to third normal form. How each part of			assessment. Regular assessment to		
ACID works in transactional			test previous learning through the use		
databases, Referential integrity			of past papers		
How can parents help at home?					
Ensure homework is completed on time. Class notes are being finished and					
summarised at home. There is preparation for Mock Exams.					
Helpful further reading and discussion (Including reading and Vocabulary					
List)					
				Vocabulary Lists	
Theory textbook –				Normalisation	
ISBN 978-1910523056			Referential integrity		
OCR AS and A Level Computer Science, by			Validation		
Heathcote and Heathcote			Verification		
				ACID	
Programming Textbooks-				Not	
ISBN - 978-1910523193				D-type flip flop	
Tackling A Level Projects in Computer Science for				Adder	
OCR H446				Half adder	
ISBN - 978-1484260463					
Modern C++ for Absolute Beginners					
ISBN - 978-1838648572	J				
Beginning C++ Game Programming					