

	Intent • Improve knowledge in topics taught in years seven and eight. • Give students experience of subject content taught in GCSE Computer Science and Cambridge National IT.			
Computing				
Year 9	Database (Sept to Nov)	Spreadsheet functions (Nov to Feb)	Programming (Feb to May)	(May to July)
Knowledge (facts, information, concepts and key terminology)	• Be able to describe the structure of a database: fields, records, table, primary key, foreign key, relationships. • Understand that data can be processed to retrieve useful information: sort, filter, query	• Understand a function is a named calculation that takes inputs and produces outputs. • Describe the structure of a function: =NAME(arg1,arg2...) • Recall the purpose of key functions: SUM, MAX, MIN, AVERAGE, IF, COUNTIF, COUNT, COUNTA.	• Increase confidence in using programming concepts from previous years: output, input, variables and selection. • Have an understanding of the strings and how they can be manipulated. • Use relational operators in a Boolean expression. • Understand and use indefinite iteration.	Under Development
Understanding (ability to connect and synthesise knowledge within a context)	• Design a relational database with suitable fields, data types and relationships.	• Use composition of functions to solve problems.		
Skills (successful application of knowledge and understanding to a specific task)	• Select data using sort, filter and query. • Write basic SQL statements to retrieve data from related tables. • Create database tables, including validation rules.	• Use the functions mentioned above with some support.	• Write programs with some support.	
Formal Assessments (those done by all/vast majority of the cohort)	Multiple-choice test at the end of the unit.			
By the end of the year students on course for at least a grade 5 will...				
• Be able to use database tools to process data. • Be able to use a range of functions to process data. • Write programs independently that include selection and iteration.				