

Variable Computing- Curriculum Overview

Year 7

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	 Collaborating inline 	2. Networks:	3. Gaining support for a	4. Programming essentials	5. Programming essentials	6. Spreadsheets:
	respectfully -		cause -	in Scratch – part I	in Scratch – part II	
Assessment & End Points:	STAR assessment via MS	STAR assessment via MS	STAR assessment via MS	STAR assessment via MS	STAR assessment via MS	STAR assessment via MS
	forms	forms	forms	forms	forms	forms

Year 8

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	1. Developing for the web	2. Understanding	3. Design Vector Graphics	04. Fundamentals of Cyber	5. Introduction to P	ython Programming
		Computers		Security		
Assessment & End Points:	STAR assessment via MS	STAR assessment via MS	STAR assessment via MS	STAR assessment via MS	STAR assessme	at via MS forms
	forms	forms	forms	forms	31AK assessifie	it via ivis iorilis

Year 9

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	 Python programm 	ing with sequences of data –	2. Data Science -	3. Representations - going	4. Cyber security -	5 iDEA
	Inc; Python Programming Projects			audio-visual -		Digital Enterprise Award
Assessment & End Points:	STAR assessment via MS	STAR assessment via MS	STAR assessment via MS	STAR assessment via MS	STAR assessment via MS	STAR assessment via MS
	forms	forms	forms	forms	forms	forms

Year 10

	Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
	Topics:	Unit 1 Systems	Unit 2 Data	Unit 3 Networks	Unit 4 Network-security-	Unit-5-Impacts-of-digital-	Unit 6 Algorithms.	
		Architecture	e Representation connections, pro		and-systems-software.	technology	onit o Algorithms.	
Α	Assessment & End Points:	Unit 1 Systems	Unit 2 Data	Unit 3 Networks	Unit 4 Network-security-	Unit-5-Impacts-of-digital-	Paper 1 Mock Exam 90min	
		Architecture – End of	Representation - End of	connections, protocols -	and-systems-software	technology - End of Topic	80 marks	
		Topic Test 50 marks	Topic Test 50 marks	End of Topic Test 50 marks	End of Topic Test 50 marks	Test 50 marks		

Year 11

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	Unit 6 Algorithms.	Mock Exam Revision and	Unit 7 Programming.	Unit 8 Logic and	Paper 1 & 2 Revision	Summer Exams
		Unit 7 Programming.		Languages.		
Assessment & End Points:	Unit 6 Algorithms – End	Mock Exam _ paper full 90	Unit 7 Programming End	Unit 8 Logic and	Paper 1 & 2 Revision	Summer Exams
	of Topic Test 50 marks	min 80 marks	of Topic Test 50 marks	Languages End of Topic		
		Paper 2 ½ 60 min 40		Test 50 marks		
		marks				



Verview Computing-Curriculum Overview

Year 12

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	Comp 1	Comp 1	Comp 1	Comp 1	Comp 1	Comp 1
	1.1 The characteristics of	1.2 Software and software	1.2 Software and software	1.2 Software and software	1.3 Exchanging data	1.3 Exchanging data
	contemporary processors,	development	development	development		
	input, output and storage				1.3.3 Networks	1.3.4 Web Technologies
	devices	1.2.1 Systems Software - 8	1.2.2 Applications	1.2.3 Software Development		
	1.1.1 Structure and function	lessons	Generation		Comp 2	
	of the processor			1.3 Exchanging data	2.1 Elements of	Comp 2
	1.1.2 Types of processor	Comp 2	1.5 Legal, moral, cultural and		computational thinking	2.3 Algorithms 2/2
	1.1.3 Input, output and	2.2 Problem solving and	ethical issues	1.3.1 Compression,		
	storage	programming		Encryption and Hashing.	2.1.4 Thinking procedurally	NEA - Analysis Section - 1
			Comm 3			hour a week -
	Comp 2	2.2.1 Programming	Comp 2	1.2.4 Types of Programming	2.1.5 Thinking concurrently	
	1.4 Data types, data	techniques	1.4 Data types, data	Language		
	structures and algorithms		structures and algorithms		2.3 Algorithms ½	
			1 1 2 Data Structures	Comp 2		
	1.4.1 Data Types		1.4.2 Data Structures	2.2 Problem solving and	NEA - Preparation 1 hour a	
				programming	week -	
				2.2.2 Computational		
				methods		
Assessment &	Regular knowledge checks at	Regular knowledge checks at	Regular knowledge checks at	Regular knowledge checks at	Regular knowledge checks at	Regular knowledge checks at
End Points:	key points in the topics via	key points in the topics via	key points in the topics via	key points in the topics via	key points in the topics via	key points in the topics via
Lita i Ollits.	MS Forms	MS Forms	MS Forms	MS Forms	MS Forms	MS Forms
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	End of Topic Assessments	End of Topic Assessments	Abridged Paper 1 & 2 Mock	End of Topic Assessments	UCAS Exam – Paper 1 &	End of Topic Assessments
	,	,	Exam	,	Paper 2	,



V Computing- Curriculum Overview

Year 13

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1 & 2
Topics:	Comp 1	Comp 1	Comp 1	Comp 1	Comp 1 & Comp 2
	1.5 Legal, moral, cultural and	1.5 Legal, moral, cultural and	1.3.3 Networks	Content of non-exam assessment	MS forms PLC based on
	ethical issues	ethical issues		Programming project	specification to aid in teacher and
			Content of non-exam assessment		student direction of revision.
	1.5.1 Computing related legislation	1.5.2 Moral and ethical Issues	Programming project	3.3 Developing the solution (25	
				marks)	Review topics.
	Comp 2	NEA - 3.3 Developing the solution	3.3 Developing the solution (25		
	1.4 Data types, data structures and algorithms	(25 marks)	marks)	3.4 Evaluation (20 marks)	Crossover papers.
		Comp 2	3.4 Evaluation (20 marks)	Comp 2	Also teach exam technique and do
	1.4.3 Boolean Algebra	2.2 Problem solving and		MS forms PLC based on	an exam paper walkthough for
		programming	Comp 2	specification to aid in teacher and	Paper 1 and Paper 2
	NEA Design Section 1 hr		2.3 Algorithms	student direction of revision.	
		2.2.1 Programming techniques - B			Exam prep including problem
			(b) The suitability of different	Review topics.	solving and mini papers.
		1.3 Exchanging data	algorithms for a given		
		1.3.2 Database	task and data set, in terms of	Crossover papers.	Make use of Seneca Learning and
			execution time and		GCSEPod platforms to aid directed
			space.	Also teach exam technique and do	revision
			(c) Measures and methods to	an exam paper walkthough for	
			determine the efficiency	Paper 1 and Paper 2	
			of different algorithms, Big O		
			notation (constant,	Exam prep including problem	
			linear, polynomial, exponential and	solving and mini papers.	
			logarithmic		
			complexity)	Make use of Seneca Learning and	
				GCSEPod platforms to aid directed	
				revision	CURANAED EVANAS
Assessment	Regular knowledge checks at key	Regular knowledge checks at key	Regular knowledge checks at key	Regular knowledge checks at key	SUMMER EXAMS
& End	points in the topics via MS Forms	points in the topics via MS Forms	points in the topics via MS Forms	points in the topics via MS Forms	
Points:	End of Tonic Assessments	End of Tonic Assessments	End of Tonio Associaments Carrier	End of Tonic Assessments	
	End of Topic Assessments	End of Topic Assessments	End of Topic Assessments Spring	End of Topic Assessments	
			Mock Paper 1 & 2 NEA DEADLINE		
			NEA DEADLINE		