	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
KEY TOPIC/VALUE	Introduction Part 1: Computing skills Entry Assessment. What are student's	Unit 1: My digital World (e- Safety) - Continued Students focus on the	Unit 5: PowerPoint VBA Interactive Quiz Quiz Using Visual Basic	Unit 2: Kodu (Visual programming) Design, use and evaluate	Unit 4: – How Computers Work Understand the hardware and software	Unit 6 : Introduction/Advanc ed Scratch Programming
YEAR 7	experiences and skill and knowledge when joining year 7 Introduction Part 2: Finding your way around HTAs computer systems.	importance of use technology safely, respectfully, Responsibly and securely. Enter Oxford University Bebras Competition – Computational Thinking.	programming language to code an interactive system. Cross curricular links	computational abstractions that model the state and behaviour of real- world problems and physical systems.	components that make up computer systems, and how they communicate with one another and with other systems.	covering the following skills: Using loops Selection statements Variables Planning Blocks Problem Solving
	Unit 1: My digital World (e- Safety) Students focus on the importance of use technology safely, respectfully, Responsibly and securely.					

AUTUMN	1 AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
YEAR 8 YEAR 9 YEAR 9 YE	Unit 2: DatanalRepresentationmUnderstanding howebrasdata is stored in aomcomputer system.ebrasConvertbinary, denaryandhexadecimalvaluesAddition withbinaryLogic Gatesand truthtablesstoring images, sound,text and instructionse OCREnter OxfordnceEnter Oxfordge)University BebrastingComputationalThinking.	SPRING 1 Unit 3– Python Programming and Algorithms Moving from Block to Text Based Programming and following on from skills in Advanced Scratch Programming: • Algorithms using Flowgorithm • Input and Output • IF statements • Loops Correcting errors in Programming	 SPRING 2 Unit 4: Networks Understanding of how data is transmitted across the network Types of networks – LAN, WAN Factors that affect the performance of networks The different roles of computers in client server and peer to peer networks The hardware needed to convert standalone computers to a LAN Star and Mesh network topologies 	SUMMER 1 Unit 5 – E-Safety Cyber Crime and System Security Online Safety and Digital Footprints	SUMMER 2 Unit 6 – App Development Creative task – create an app to help new year 6 students with transitioning to our school and becoming part of the community



	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
YEAR 9	Baseline Assessment – Python Programming Students will be set Programming tasks based on their baseline assessment. <u>Dedicated</u> <u>Programming Focus:</u> Output text strings Input strings and numbers into variables <u>Theory:</u> 1.1 System Architecture	Dedicated Programming Focus: String manipulation Selection Theory: 1.1 System Architecture Enter Oxford University Bebras Competition – Computational Thinking.	Dedicated Programming Focus: String manipulation Selection Theory: 1.2 Part 1 Memory and Storage	Dedicated Programming Focus: Arithmetic operations and random numbers Counter controlled iteration Theory: 1.2 Part 1 Memory and Storage	Dedicated Programming Focus: Condition controlled iteration <u>Theory:</u> 1.2 Part 2 Data Representation	Dedicated Programming Focus: Subroutines, procedures and functions. Theory: 1.2 Part 2 Data Representation



	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
	1.5 System Software	1.6 Ethical, Cultural and Legal issues	2.2 Programming Fundamentals	2.4 Computational Logic	2.1 Algorithms Revision	Dedicated Programming
YEAR 10	Dedicated Programming	Paper 1 Assessment for groups 10ACS1 and 10BCS1 Dedicated Programming Enter Oxford University Bebras Competition – Computational Thinking.	Dedicated Programming	Dedicated Programming	Dedicated Programming	Preparation for Internal Assessment Internal Assessment



	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
	POS Statements from Mock Exam – Paper 1 and Paper 2.	2.3 Producing Robust Programs.	POS Statements from Mock Exam – Paper 1 and Paper 2.	Revise 2.1 Algorithms and 2.4 Boolean Logic.	Revision Focus – Essay style	NA
	2.2 Programming	Dedicated Programming.	2.5 Programming	Dedicated Programming.	questions.	
YEAR 11	Fundamentals.		languages and IDE's	riogramming.	Dedicated	
	Dedicated Programming.	Internal Assessment Preparation.	Dedicated Programming.		Programming	
		Enter Oxford University Bebras Competition – Computational Thinking.				