Year 9 - **Computer Science** – Long Term Plan 2019-20

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Term 1		Introduction Logins, folders etc.	Number Systems Conversion / Addition	Number Systems Addition / Subtraction	Scratch Programming Start Design Document	Scratch Programming Finish Design Document	Scratch Programming Programming	Scratch Programming Programming
		Number Systems Binary Conversion	Number Systems Overflow / Hexadecimal	Number Systems EOT Test and Review	Data Representation Intro and Logic Gates	Data Representation Logic Gates	Data Representation Boolean Algebra	Assessment - 1 Summative

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Term 2	Scratch Programming Programming	Scratch Programming Programming	Scratch Programming Programming	Scratch Programming Programming	Scratch Programming Programming	Scratch Programming User Guide / Evaluation.	Assessment - 2 Summative
	Data Representation Boolean Algebra	Data Representation Character Sets	Data Representation Images	Data Representation Sound	Data Representation Compression	Scratch Programming User Guide / Evaluation	Hour of Code Code Combat

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Term 3	Prog. Languages Lesson 1	Prog. Languages Lesson 2	Prog. Languages Lesson 3	Prog. Languages Lesson 4	Prog. Languages End of Topic Test	Python Various
	Python Various	Python Various	Python Various	Python Various	Python Various	Assessment - 3 Summative

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Term 4	System Security Lesson 1	System Security Lesson 2	System Security Lesson 3	System Security Lesson 4	System Security End of Topic Test	Python Various
	Python Challenge	Python Various	Python Various	Python Various	Python Various	Assessment - 4 Summative

	Week 1	Week 2	Week 3	Week 4	Week 5
Term 5	Python Various	Python Various	Python Various	Python Various	Python Challenge
	Python Challenge	Python Various	Python Various	Python Various	Assessment - 5 Summative

	Week 1	Week 2	Week 3/	Week 4	Week 5	Week 6	Week 7
Term 6	Comp. Thinking Introduction	Search and Sort Bubble Sort	Search and Sort Merge / Binary	Networks Various	Networks Various	Networks Various	Assessment - 6 Summative
	Search and Sort Linear Search	Search and Sort Insertion Sort	Search and Sort End of Topic Test	Networks Various	Networks Various	Networks End of Topic Test	Hour of Code Code Combat?

Year 10 - **Computer Science** – Long Term Plan 2019-20

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Term 1	Networks NIC, Hubs, Switches	Networks IP addresses, DNS	Networks Wireless Networks	Networks Types of Network	Networks Hosting	Networks EoT Test and Review	Compression Lossy / Lossless	Assessment 1 Summative
	Python Refresh - Functions	Python Algorithms - 1	Python Algorithms - 2	Python Intro. To OO Prog.	Python Algorithms	Python Files	Python Files	Python Files

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Term 2	Legal / Ethical Lesson 1	Legal / Ethical Lesson 2	Legal / Ethical Lesson 3	Legal / Ethical Lesson 5	Legal / Ethical Lesson 6	Legal / Ethical EoT Test	Assessment 2 Summative
	Python Encryption	Python Encryption	Python Encryption	Python Encryption	Python Encryption	Python Encryption	Python Sierpinski Triangle

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Term 3	Memory Lesson 1	Storage Lesson 2	CPU Lesson 1	CPU Lesson 2	CPU Lesson 3	CPU End of Topic Test
	Python Robust Programs	Python Robust Programs	Python Robust Programs	Python Robust Programs	Python Robust Programs	Python Assessment

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Term 4	Protocols and Layers Lesson 1	Protocols and Layers Lesson 1	Protocols and Layers Lesson 1	Protocols and Layers Lesson 1	Protocols and Layers EoT Test and Review	Assessment 4 Summative
	Python Robust Programs	Python Robust Programs	Python Robust Programs	Python Robust Programs	Python Robust Programs	Python Assessment

	Week 1	Week 2	Week 3	Week 4	Week 5
Term 5	Introduction The NEA	The NEA Analysis – 2	The NEA Design - 1	The NEA Design – 3	The NEA Development – 1
	The NEA Analysis - 1	The NEA Analysis - 3	The NEA Design - 2	The NEA Design - 4	Assessment 5 Summative

	Week 1	Week 2	Week 3/	Week 4	Week 5	Week 6	Week 7
Term 6	The NEA Development – 2	The NEA Development – 4	The NEA Development – 6	The NEA Development – 8	The NEA Development – 10	The NEA Evaluation – 1	Assessment 6 Summative
	The NEA Development - 3	The NEA Development - 5	The NEA Development - 7	The NEA Development - 9	The NEA Development - 11	The NEA Evaluation – 2	Hour of Code Code Combat

Year 11 - **Computer Science** – Long Term Plan 2019-20

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Term 1	Introduction The NEA	The NEA Analysis – 2	The NEA Design - 1	The NEA Design – 3	The NEA Python - Refresher	The NEA Development – 1	The NEA Development – 3	The NEA Development - 5
	The NEA Analysis - 1	The NEA Analysis - 3	The NEA Design - 2	The NEA Design - 4	The NEA Python - Refresher	The NEA Development - 2	The NEA Development - 4	Assessment 1 Summative

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	
Term 2	The NEA Development – 6	Protocols and Layers Lesson 1	The CPU Revision Session	System Software System Software	System Software Operating Systems	Assessment 2 Mock Exam	The NEA Development - 13	
	The NEA Development - 7	The NEA Development – 8	The NEA Development – 9	The NEA Development - 10	The NEA Development - 11.	The NEA Development - 12	Python Sierpinski Triangle	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Term 3	The NEA Development – 14	The NEA Evaluation – 1	Revision Lesson 1	Revision Lesson 3	Revision Lesson 5	Revision Lesson 7
	The NEA Development - 15	The NEA Evaluation - 1	Assessment 3 Mock Exam	Revision Lesson 4	Revision Lesson 6	Assessment 4 Mock Exam

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Term 4	Revision Lesson 1	Revision Lesson 3	Revision Lesson 5	Revision Lesson 7	Revision Lesson 9	Revision Lesson 11
	Revision Lesson 2	Revision Lesson 4	Assessment 5 Mock Exam	Revision Lesson 8	Revision Lesson 10	Assessment 6 Mock Exam

	Week 1	Week 2	Week 3	Week 4	Week 5
Term 5	Revision Lesson 1	Revision Lesson 3	Revision Lesson 5	Exam! May 13	
	Revision Lesson 2	Revision Lesson 4	Revision Lesson 6	Exam! May 16	

	Week 1	Week 2	Week 3/	Week 4 24 June	Week 5	Week 6	Week 7 15 July
Term 6							