

	Autumn Term		Spring Term		Summer Term	
Big Ideas & Purpose	Learning basic ICT skills needed for other subjects, learning basic computing skills and how a computer works.		Learning basic ICT skills needed for other subjects, introduction to programming.		Learning design skills and introduction to programming.	
Programme of Study	HT1 My dream holiday – PowerPoint For this unit,	HT2 Introduction to Computer science For this unit,	HT3 Extreme sports – spreadsheets In this unit, students	HT4 Bizarre facts – the internet In this unit, students	HT5 Endangered animals – publishing software In this unit, students	HT6 Game on – Scratch programming In this topic,
	students have to make a presentation about their dream holiday destination.	students will learn about the different components of a computer and how computers understand things.	will learn how to format spreadsheets, how to make graphs and basic formulae/	learn about how the internet works, how to search on the internet, as well as email etiquette.	learn how to use publishing software to make posters and leaflets.	students have their first introduction to programming. They are required to program a game.
Key Assessments	Assessment on the computer – editing a presentation		 Assessment on the computer – creating a spreadsheet 		 Multiple choice test on the computer covering all topics from the past year 	
Key Skills	Algorithms and flowchartsComputational mathsSpreadsheet skillsDesign	5		Links to CareersAccountantMarketingProgrammer		

Game designer

Graphic designer

• Programming skills

• Creativity

• Computational thinking



	Autumn Term		Spring Term A programming based term, introducing skills needed for GCSE. Website design skills develops design skills.		Summer Term Developing design skills and programming skills.	
Big Ideas & Purpose	Learning about the importance of staying safe online. Understanding how a computer works.					
Programme of Study	HT1 E-safety – staying safe online In this unit students cover how to stay safe online and learn about topics such as: sexting, grooming, scams, passwords, malware, cyber-	HT2 Introduction to Computer Science For this unit, students will learn about the different components of a computer and how computers understand things.	HT3 Small Basic programming In this topic, students develop their programming skills further to include text based programming using small basic.	HT4 HTML – coding website design In this unit, students learn how to code a simple website using HTML.	Jump on the bandwagon – website design using software In this topic, students will learn about how to create an attractive and user friendly website.	HT6 Python programming In this topic, students develop their programming skills further to include text based programming using python.
Key Assessments	bullying. Written assessment on e-safety		Small basic written assessment		 Multiple choice test on the computer covering all topics from the past year 	
Key Skills	Computational mathsProgramming skillsDesign skills			Links to Careers • Police • Programmer		

Website designer

Graphic designer Software developer

• Computational thinking

Creativity



• Photo editor

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Subject Curriculum – Year 9

	Autumn Term		Spring Term		Summer Term		
Big Ideas & Purpose	Encryption is a past GCSE topic, still referenced in GCSE now. Develops computational thinking skills.		Developing design skills further, flowcharts are used in GCSE Computer Science. Spreadsheets further develop programming and computational maths skills.		Creative topics which help to develop design skills and give students a feel for creative computer science based jobs.		
Programme of Study	HT1 Encryption	HT2 Introduction to Computer Science	HT3 Digital detectives – image manipulation	HT4 Mayhem manor – spreadsheets and flowcharts	HT5 Drawplus – graphic design	HT6 Advanced website design	
	In this unit, students will learn how to encrypt and decrypt using several methods. They will also learn why encryption is important in Computer Science.	For this unit, students will learn about the different components of a computer and how computers understand things.	Students will learn about how to manipulate images including making composite images, colour adjustment and retouching.	Students will cover a range of topics such as spreadsheets, presentations and publishing software. As well as learning how flowcharts work.	Students will learn how to create images using graphic design software.	In this unit, student will build on skills learnt in Y8 to make a sophisticated website on a topic of their choice.	
	Written assessment on encr	yption	 Computer based images 	assessment – creating 3	 Multiple choice test covering all topics fr 		
Key Skills	 Computational thinking Computational maths Design skills Algorithms Spreadsheet skills Creativity 			 Links to Careers Cyber security a Spy Programmer Website designed Graphic designed Accountant 	er		





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Big Ideas & Purpose	Autumn Term Introduction to python programming, learning the basics for inside a computer, CPU and the fetch decode execute cycle.		Spring Term The controlled assessment is a mandatory part of the course; it must be completed before the end of Y11 but is a non-assessed piece of work.		Summer Term Introduction to networking including LANs/Wans, internet, network security and the cloud.	
Programme of Study	HT1 CPU, Inside a computer, FDE, binary, python programming basics	HT2 Logic gates, characters, images, sound, compression	HT3 Controlled assessment	HT4 Controlled assessment, hexadecimal	HT5 Network security, pseudocode, LAN/WAN, internet	HT6 IDE, embedded systems, topologies the cloud
Key Assessments	Python programming assessment		 Mock exam paper – 1 paper with theory and programming combined 		 2 written exam papers, theory and programming 	
Key Skills	 Computational thinking skills Programming skills Computational maths Recall of knowledge 		 Links to Careers Programmer Software developer Teacher/Lecturer Computer Science Data analyst 			

Cyber security analyst

IT consultant
Penetration tester
Systems analyst
Web designer
Web developer



	Autumn Term		Spring Term		Summer Term	
Big Ideas & Purpose	Completing the networking topics, as well as covering content from the programming paper.		Learning about the ethical, cultural, legal and environmental aspects of computing. Covering the remaining content from the programming paper.		Revising for exams, built in time to cover more difficult concepts before the GCSE exams.	
Programme of	HT1	HT2	HT3	HT4	HT5	HT6
Study	OS, sorting and searching algorithms, WIFI, protocols	Mock exams, past exam papers, abstraction and decomposition	SQL, sub programs, records, testing, legislation	Defensive design, privacy, cultural, arrays	Revision for exams and catch up	GCSE exams
Key Assessments	2 written exam papers, theory and programming		 2 written exam papers, theory and programming 		GCSE exams	
Key Skills	 Computational thinking skills 		Links to Careers			
	 Programming skills 		 Programmer 			
	 Computational maths 		Software developer			
	 Recall of knowledge 		 Teacher/Lecturer Computer Science 			

Data analyst

IT consultant Penetration tester Systems analyst Web designer Web developer

Cyber security analyst