Term	Year 9	Term	Year 9	Term	Year 9
Autumn 14 weeks		Spring 10 weeks		Summer 14 weeks	
Literacy foci	<u>Units</u> :	Literacy foci	<u>Units</u> :	Literacy foci	Units:
Reading skills	9.1 Computational thinking &	Reading skills Terminology and	9.3 Networks	Reading skills	9.5 Technology for the Future
Terminology and vocabulary	Python	vocabulary	NC Content:	Terminology and	NC Content:
Keywords	NC Content:	Keywords		vocabulary Keywords	Students will understand the hardware and
Spelling tests	Students are able to understand several key	Spelling tests	Students revisit how to use technology safely,	Spelling tests	software components that make up computer
	algorithms that reflect computational thinking They will use logical reasoning to compare the utility of		respectfully, responsibly and securely, including protecting their online identity and privacy; and		systems, and how they communicate with one another and with other systems. Students will
	alternative algorithms for the same problem in a	Homowork	ability to recognise inappropriate content, contact		understand how instructions are stored and
Homework	program	Homework Quizizz.com,	and conduct and know how to report concerns.	Homework	executed within a computer system. They will create, reuse, revise and repurpose digital
Quizizz.com, Spelling & bespoke DPR	Students will use a programming language, which is	Spelling & bespoke DPR	They learn about the hardware and software	Quizizz.com, Spelling & bespoke DPR	artefacts for a given audience, with attention to
intervention	textual, (python), to solve a variety of computational problems, the will understand the	intervention	components that make up computer systems, and how they communicate with one another and with	intervention	trustworthiness, design and usability.
	appropriate use of data structures [for example,		other systems. The school network is used as a real		
	lists, tables or arrays]; design and develop programs that use procedures or functions.		life example		8) I am able to create my own creative digital
Key Objectives	I can explain what a programming language is and how you can solve a	Key Objectives	7) I can describe the benefits of a network and	Key Objectives	artefacts through digital image editing and multimedia production
	problem with a program.  2) I know how to use variables, loops, if, else, lists and functions to create		what different types there are		
	a working program.  3) I understand that computers use a variety of data types differently and I can explain this.		0.4 Hardware /Software		9.6 IT for Life
	I understand what Computational thinking is and can describe how decomposition, pattern recognition, abstraction and algorithms relate		9.4 Hardware/Software		NC Content:
	to it. 5) I understand how algorithms are used to solve problems.		NC Content:		Students will have the opportunity to design,
	9.2 Multimedia		They will learn about the hardware and software	Revisiting, revising,	use and evaluate computational abstractions that model the state and behaviour of real-world
Deviciting verticing	NC Content:	Revisiting, revising,	components that make up computer systems, and	remembering	problems and physical systems. They will also
Revisiting, revising, remembering opportunities	They will complete a creative project that involves them selecting, using, and combining multiple	remembering	how they communicate with one another and with other systems.	opportunities Starter activities	understand the hardware and software components that make up computer systems,
Starter activities	applications, across a range of devices, to achieve a	opportunities	They will recognise how data of various types	Quizizz.com, DPR individual	and how they communicate with one another
Quizizz.com, DPR individual	challenging goal, They will collect and analyse data and meet the needs of known users or clients.	Starter activities	(including text, sounds and pictures) can be represented and manipulated digitally, in the form	work	and with other systems
work		Quizizz.com, DPR individual	of binary digits, relating this back to the hardware.		I understand what Computational thinking is
	They will create, re-use, revise and re-purpose digital artefacts for a given audience, with attention	work			and can describe how decomposition, pattern recognition, abstraction and
	to trustworthiness, design and usability.				algorithms relate to it.
	They must create a Multimedia product which meets a specific brief.		9) I understand what computer hardware is	Key Objectives	<ol> <li>I understand how algorithms are used to solve problems.</li> </ol>
Key Objectives			and can describe key components	ney objectives	Sovie prositing.
	8) I am able to create my own creative digital	Key Objectives	10) I know what software is and am able to distinguish between application and system		
	artefacts through digital image editing and multimedia production		software		Enrichment/life and work skills:
			Enrichment/life and work skills:		Computer Science Club
	Enrichment/life and work skills:		Computer Science Club		Competitions
			Competitions		Assessments:
	Computer Science Club Competitions		Assessments:		End of Year Assessment.
			Quizizz.com		Endpoints:
CIMC Data draw	Assessments:		Endpoints:	SIMS Data drop	Students will understand how the advances in
SIMS Data drop	Quizizz.com	SIMS Data drop	Students wil understand how networks operate		computing are reflected in the world around them,
	Endpoints:		and their own use of them, they will also		they will also understand their own position within this context. Students will have an understanding
	Students will understand how to program in Python, have an understanding of computational		understand the role of Hardware and Software in		of current issues within computing and how this
	thing and the use of algorithms.		Computing and its relation to digital data.		will affect their lives