

develop modular programs. This unit gives the

2022-2023 Year 7 Curriculum and Assessment Plan for Computing

The curriculum and	dassessment of nunit	s at this stage of	education has	been carefully designed to
THE CONTICUION AND		o al IIIIo olade Ol	Education nas	been carefully designed to

By the end of year 7 students will have explored a wide variety of areas of computing including Computer Science, Digital Literacy and Information Technology. They will be exposed to using a desktop environment to help develop their confidence with digital literacy which can support them with all subjects at secondary school. They will be able to express themselves and develop ideas using the computer systems. They will also be taught social, ethical, cultural and moral skills.

Half Term 1:	Subject specific skills	Half Term 2:	Subject specific skills	Half Term 3:	Subject specific skills
AH 91 911	being developed:	All 9 91 1	being developed:	All	being developed:
All pupils will know:	Digital literacy	All pupils will know:	Digital literacy	All pupils will know:	Computer
Dealter later destina (IT/DI)	skills	Haira ar Tha a hada ara ad (IT (DL)	skills	Canadala Das anassasia a (CC)	Science
Desktop Introduction (IT/DL)	IT Skills Value along to	Using The Internet (IT/DL)	IT Skills Secial ethical	Scratch Programming (CS)	Programming Figure depth on talls
Contation Code and a library (IT/DL)	Vocabulary Sacial attained		Social, ethical,	All countile will be a second of	Fundamentals
E-Safety & Cyberbullying (IT/DL)	Social, ethical,	All more the could be a managed at	cultural and	All pupils will be assessed:	Computational Third in a
	cultural and	All pupils will be assessed:	moral Skills	Carra ana alian ana di adia a arra ana arta	Thinking
All munite will be presented by	moral Skills	Desistant in the linking of a purpose to the configuration of the config		Game creation and online assessments.	•
All pupils will be assessed by:	Donalis o Chille o contact	Desktop publishing document and online assessments		Incompared Milhor dia succe de male deliga?	Donalis - Chille - condend
Baseline assessment MCQ	Reading Skills needed		Reading Skills needed for	Impact - Why do we teach this?	Reading Skills needed
	for this unit:	loss and Miles de sue le male Heigh	this unit:	Using computational abstraction to solve computational	for this unit:
Presentation on online age restrictions.	Key Vocabulary:	Impact - Why do we teach this?	Key Vocabulary:	problems and to design and develop modular programs.	Key Vocabulary:
	Digital Footprint, Social	This will enable students to have the skills to perform online	Fake News, Inaccurate,	Scratch give the students an introduction to the key	Explore, describe,
loon and Wheederson to make this 2	Network, Sharing,	research effectively and be able to spot any biased or	Biased, Untrustworthy,	fundamentals of programming such as sequence, selection,	explain, evaluate,
Impact- Why do we teach this?	CEOP, Explain,	unbiased articles or reporting. It will also give students the	Reliable, Accurate,	iteration and assigning data. Students can use these fundamentals to become creative	sequence, selection,
Many students begin without extensive	Describe.	ability to highlight stories which be promoting fake news.	Search Engines, Boolean		iteration, variable
knowledge of the desktop user environment. This gives them the opportunity to become more		This will ensure students are responsible, competent, and		with their computer.	
familiar with this which then enables them to	Opportunity for cross-	confident users of Information Technology	Opportunity for cross-		Opportunity for cross-
	curricular skill		curricular skill		curricular skill
progress in future projects in Computing and	development		development		development
other subjects.	Digital Literacy		• Literacy – The		Numeracy –
They will also be taught about the use of social	across all		importance of		Mathematical
media, both acceptable and unacceptable. This	subjects – The		checking content		operators,
has strong links to the Catholic Pupil Profile where	ability to find,		accuracy and		formulae and
we teach being kind and considerate to others	evaluate, utilize, share		proof -reading		graphing through IT
online. Students will understand a range of ways	and create		own content and utilizing the tools		through IT.
to use technology safely, respectfully, responsibly	content using				
and securely, including protecting their online	Information		provided through		
identity and privacy; recognise inappropriate	Technologies		11		
content, contact and conduct and know how to	and the				
report concerns.	Internet.				
report concerns.	internet.				
Half Term 4:	Subject specific skills	Half Term 5:	Subject specific skills	Half Term 6:	Subject specific skills
	being developed:		being developed:		being developed:
All pupils will know:	 Computer 	All pupils will know:	 Autofill. 	All pupils will know:	 Introduction to a
	Science		 Basic formatting 		range of
Python Introduction (CS)	 Programming 	Spreadsheets Basics (IT/DL)	features.	Multimedia – using Moviemaker and Audacity (IT/DL)	unexplored
	Fundamentals		 Arithmetic 		software
	 Computational 		operators: =, +, -,		packages
All pupils will be assessed:	Thinking	All pupils will be assessed:	/, *.	All pupils will be assessed:	 The ability to
	Problem		 Referencing cells. 		find, evaluate,
Documented Python code and online assessments.	Solving and	Annotated spreadsheets and online assessments.	 Basic formulae. 	Combined video and audio file and online assessment.	utilize, share and
	analysis		 Basic functions: 		create content
		Impact - Why do we teach this?	SUM, AVERAGE,	Impact- Why do we teach this?	using
Impact - Why do we teach this?			MIN, MAX.		Information
		To undertake a project that involve selecting and using	 Formatting print 	Allows students to undertake a creative project using	Technologies
Using computational abstraction to solve		data in a new application. Allows the students to achieve	output.	multiple applications to achieve a challenging goal. The	
computational problems and to design and		challenging goals including collecting and analysing data.	 Generating 	students are taught how to create and edit sound files using	
develop modular programs. This unit gives the	1	1	aranhs and	1	

graphs and

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students to take the key fundamentals they have		Students will become more confident with spreadsheet	charts from a	Audacity. As well as creating their own they are also given	
learnt in the previous unit and use them with a		creating and using a range of functions and formulas.	given data set.	digital artefacts for them to edit.	
programming language. It gives them an			 Spreadsheet 		
understanding how hardware and software		This topic builds on the basic knowledge and	planning.	They are also taught how to use Moviemaker to create short	
components communicate and allows them to		understanding of spreadsheets from their Primary	 Spreadsheet 	films and edit them. The project will then require the student	
design and develop computational abstractions		education. Student's digitally literacy is developed by	modelling.	to combine the sound file they created in Audacity with	
of physical systems.		enabling them to use, express themselves, and develop	•	their Moviemaker project.	
		their ideas through information technology, which will be			
	Reading Skills needed	progressively built on in subsequent years to reach a level	Reading Skills needed for		Reading Skills needed
	for this unit:	suitable for the future workplace and as active participants	this unit:		for this unit:
	Key Vocabulary:	in a digital world.	inis oriii.		TOT THIS OTHE.
	key vocabolary.				
	Explore, describe,		Key Vocabulary:		Key Vocabulary:
	explain, evaluate,		Rey Vocabolary.		Rey Vocabolary.
	sequence, selection,		Cell, Rows, Columns,		Snipping, Fade, Edit,
	iteration, variable		Value, Worksheet,		Transition, Effects,
	Toranori, variable		Formula, Loops,		Explore
			Sequence, Conditional		EXPICIC
			Statement		
			ordronnonn		
	Opportunity for cross-		Opportunity for cross-		Opportunity for cross-
	curricular skill		curricular skill		curricular skill
	development		development		development
	Numeracy –		 All subjects – Print 		Digital Literacy
	Mathematical		layout formatting,		across all
	operators,		formatting.		subjects – The
			 Maths – Statistics 		ability to find,
	formulae and		 Science – Analysis 		evaluate, utilize,
	graphing		and evaluation		share and
	through IT.		Geography -		create content
			Analysing and		using
			interpreting		Information
			different data		Technologies
			sources		and the Internet.
					Literacy – The
					importance of
					checking
					content
					accuracy and
					proof -reading
					own content
					and utilizing the
					tools provided
					through IT.
Ensuring this curriculum meets the needs of all pupils: this	s curriculum has been designe	ed to ensure pupils from all starting points will develop the key curriculun	n skills and knowledge identified	The curriculum design ensures that each unit forms part of the overall le	earning journey and there are

opportunities for revisiting skills and linking together key pieces of knowledge. Whole Academy policies and practices are followed to tailor the delivery of the curriculum for individuals and groups of students. For example SEND students have individual learning profiles that outline needs/strategies to be used. Ongoing formative assessment and clear summative assessment points allow individual staff and departments to identify misconception and adjust curriculum appropriately.

Enrichment opportunities: Coding Club Visits/Trips

Career opportunities/ links: Administration / Software developer / Software engineer / Cybersecurity / Research and analysis / Production