

SUBJECT: COMPUTING

Year Group	YEAR 9						
Rationale	The Y9 computing curriculum is designed to give pupils a broad range of experiences. It is designed to develop the cultural capital of our pupils to enable them to confidently speak about a range of different computer science concepts and formulate opinions on the impact that computer science technologies have had on society from legal, cultural, ethical and environmental perspectives. In addition to this for those learners that decide not to pursue computing further the curriculum is designed to give them very strong foundations in the subject that they can use throughout life. Finally, the year 9 curriculum is designed to give pupils experiences in topics that relate to KS4 options to enable them to make informed choices whether to opt for one of our subjects jjj.						
	Autumn Term 1	Autumn Term 2	Spring Term Spring Term 2	Spring Term 1	Summer Term 2		
Topic/Unit	Cyber Security	Create Code	Python Programming	Impact on Society	Practical Algorithms		
Knowledge	Digital Literacy This unit has been built around the Government cyber security campaign. Pupils will complete a range of problem solving challenges themed around cyber security whilst develop- ing knowledge of a range of security methods used in industry such as; cryptography, hidden in plain sight, code injection, trial and error etc. Pupils will develop knowledge of hacking and will be able to recognise the difference between ethical hackers and non-ethical hackers.	This unit will bring together the three different strands taught within computing. As part of this unit pupils will under- take a creative project. Pupils will develop knowledge of design concepts and design a simple game/ app. Pupils will develop their knowledge of how to market/ promote the game/app before splitting the team up into key roles such as graphic designers (cover/promo material), story boarders and coders etc. Whilst com- pleting this pupils will develop know- ledge of a range of pre- production documents and their uses	This unit will be split across two half terms. This unit will build upon the programming concepts knowledge gained during small basic in Y8 and Microbit in Y7. This unit will revisit the key programming techniques that pupils have used within Microbit, Small Basic, and practical algorithms. Pupils will develop further knowledge of text based programming and the importance of adhering to the syntax of the python programming language. They will develop further knowledge of the main programming concepts and will create programs that consist of the following: Variables & constants, Inputs & outputs, Selection, Iteration (for and while), Arrays, Modules, File manipulation and Functions. Pupils will develop further knowledge of what makes code efficient and robust and will learn how to select the correct program- ming technique for a given scenario.	Pupils will develop know- ledge on the impact that a range of different com- puter based technologies have on society from general points of view and more specific legal, ethical, cultural and environ- mental issues. Pupils will focus on a range of technologies including the positives and negatives of: Mobile & Wearables, Automation & AI, Surveillance & CCTV, Big data Copyright, piracy and streaming.	Pupils will develop Computer Science This unit will build upon the knowledge developed throughout the computer science units from the previous 2 years. Pupils will be able to recognise what an algorithm is, understand the concepts of abstraction, decomposition and be able to apply these techniques to a range of real life game problems. Pupils will develop their knowledge of pseudocode including reading and writing it for given problems. Additionally pupils will develop knowledge of what makes an efficient algorithm and will be able to analyse key searching and sorting algorithms.		

St Edmund Arrowsmith Catholic High School: Curriculum (2022-2023)

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	Analytical skills will be	This unit largely focusses on	Programming and problem solving skills. As pupils are	This unit will develop pupil	Develop abstraction and
	developed as	developing	identifying different code samples	oracy and	decomposition
	pupils spend	pupils creative	analytical skills will be developed	literacy skills	skills when
	time analysing	thinking skills	in addition to debugging skills	through debates	analysing
	text in order to	and design	which will be developed through	and written	problems to
	come up with a	skills as they	identifying and fixing errors in	work. In addition	solve.
	solution.	produce a range	code. As pupils work through a	to this pupils will	Use logical
	Resilience will	of designs for	range of challenges they will	develop their	reasoning skills
	be developed as pupils spend	game/app using	develop their computational	analytical and evaluation skills	to compare the utility of
	time solving	a range of different	thinking skills and numeracy as they program solutions that use a	as they write	alternative
	some complex	planning	range of arithmetic. Resilience	reports and	algorithms for
	problems that	techniques. In	and metacognitive skills will be	reflect on the	the same
	require multiple	addition to this	enhanced throughout this unit as	impact that a	problem.
	attempts.	IT skills will be	pupils spend time debugging	range of	Reflect on key
	Programming	developed as	complex programming problems.	technologies	algorithms using
	skills will be	pupils use a		have had on	computational
	developed as	range of		society from	thinking skills.
	pupils attempt to	different		positive and	Develop
	solve problems using a range of	software		negative points of view.	problem solving skills to
	different	platforms to present			identify efficient
	programing	information. The			ways to produce
	techniques.	teamwork and			a solution
	Evaluation	communication			Resilience,
S	skills will be	skills will be			independence
	developed as	developed as			and
	pupils reflect on	pupils work in a			metacognitive
	the challenges	group.			skills will be
	faced and	Presentation			enhanced
	hacking	skills will be			throughout this
1	methods used.	developed as pupils deliver			unit.
		their proposals			
		to the class.			
Assess-	Practical	Practical	Practical: Pupils will complete a	Written essay	Practical –
	This will be done	Pupils will	small programming project where	Pupils will	Apply the
	throughout the	deliver a	they will be expected to code a	complete a	concepts of
	unit, teachers	presentation in	solution for a given problem,	written report on	abstraction and
	will keep a	their groups/	selecting the most appropriate	one of the key	
r	record of how	individually	programming techniques to		decomposition
				topic areas	to solve a
	many	proposing what	produce an efficient solution.	mentioned	to solve a problem and
	challenges are	proposing what their game/app	produce an efficient solution. Pupils will get teacher feedback	mentioned above. This will	to solve a problem and write an
		proposing what their game/app would be and	produce an efficient solution. Pupils will get teacher feedback on this and have the opportunity	mentioned above. This will be assessed	to solve a problem and write an algorithm for a
	challenges are being solved.	proposing what their game/app would be and showcase any	produce an efficient solution. Pupils will get teacher feedback	mentioned above. This will be assessed using GCSE	to solve a problem and write an
r	challenges are being solved. News Article:	proposing what their game/app would be and showcase any planning	produce an efficient solution. Pupils will get teacher feedback on this and have the opportunity to improve their code.	mentioned above. This will be assessed using GCSE exam marking	to solve a problem and write an algorithm for a given problem.
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Homework	Application –	Research and	Practice – Pupils given a	Research and	Extension -
	Pupils will be	preparation	Microsoft forms guiz to	Extension -	Pupils asked to
	asked to	Pupils given the	consolidate their understanding of	Pupils asked to	complete at
	complete	tasks to find,	key programming terminology and	conduct	least one iDEA
	challenges using	download and	their practical understanding of	additional	award badge
	the cyber	use 3 new	some common programming	research into the	per week or 7
	discovery/crypto	mobile apps that	concepts.	impact of	over the term.
	hack platform to	each have a		computer	
	practice their	different		technology on	
	ethical hacking	purpose and	Practice – Pupils given a piece of	society. This can	
	skills.	make some	code with errors and asked to	be done through	
		notes ready for	debug the code and fix the errors	reading news	
	Application	discussions in		articles, books	
	and integration	lesson.	Preparation and Practice –	or watching	
	- Pupils will		Pupils given the task to revise for	documentaries	
	extend their	Integration -	their end of topic summative	(suggested	
	knowledge	On-going task of	assessment. Suggested revision	sources	
	further by writing	presenting a	strategies provided to pupils and a	provided)	
	a report on a	portfolio of	knowledge organiser to aid	D	
	recent cyber	designs for the	revision.	Preparation	
	security issue	mobile app that		and Practice –	
	from the news.	pupils are		Pupils given the	
	Bringing	creating		task to revise for	
	together their			their end of topic	
	literacy and			summative	
	presentation skills together			assessment.	
	with their			Suggested	
	knowledge of			revision	
	various cyber			strategies	
	security issues.			provided to	
				pupils and a	
	Preparation			knowledge	
	and Practice –			organiser to aid	
	Pupils given the			revision.	
	task to improve				
	on their sway				
	presentations				
	based on				
	teacher				
	feedback and to				
	use it as a tool				
	to prepare and				
	revise for their				
	summative				
	assessment.				