

## **Sacred Heart Catholic Primary School**





	EYFS Curriculum						
Unit	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
	Units 1-4 RS	Units 5-8 RS	Units 9-12 RS	Units 13-16 RS	Units 17-20 RS	Units 21-24 RS	
	<ol> <li>Know how to speak in a group</li> <li>Know how to play co-operatively</li> <li>Know why they enjoy some activities more than others and make choices</li> <li>Know how people show their feelings and talk about behaviour</li> </ol>	<ol> <li>Know how to move carefully around a space</li> <li>Know how to coordinate large and small movements</li> <li>Know that physical exercise contributes to being healthy</li> <li>Know how to keep healthy and fit</li> </ol>	1. Know how to listen carefully in different situations 2. Know how to follow several different instructions 3. Know how to express themselves clearly	<ol> <li>Know how to demonstrate understanding about what they have read</li> <li>Know how to write simple sentences</li> <li>Know how to count up to 20</li> </ol>	1. Know how to solve problems involving position and distance  2. Know how to talk about size and position  3. Know how to discuss past and present events in their own and others' lives  4. Know how to find similarities and differences between objects	1. Know that a range of technology is used for different purposes  2. Know that different materials and tools are used for different jobs  3. Know how to express own thoughts and feelings through music and stories	

	Year 1							
Unit	Autum	n 1	Autumn 2	Spring 1	Spring 2	Summer		
	Treas	ure Hunters	TV Chefs	Painters	Collectors	Celebrating		
		Know that a	1. Know how to break down	1.Know how to use the	1.Know how to find and	1.Know how to develop basic keyboard skills, through		
		nmable toy can be	a process into simple, clear	web safely to find ideas for	use pictures on the web.	typing and formatting text.		
		ed by inputting a	steps, as in an algorithm.	an illustration.				
	sequen	ce of instructions.			2.Know what to do if	2.Know how to develop basic mouse skills.		
	_		2. Know how to use different	2.Know how to select and	they encounter pictures			
	2.	Know how to develop and record	features of a video camera.	use appropriate painting tools to create and	that cause concern.	3.Know how to use the web to find and select images.		
		sequences of	3. Know how to capture	change images on the	3.Know how to group	4.Know how to develop skills in storing and retrieving		
		instructions as an	moving images.	computer.	images on the basis of a	files.		
		algorithm.			binary (yes/no)			
			4. Know how to develop	3.Know how this use of	question.	5.Know how to combine text and images.		
	3.	Know hot to program	collaboration skills.	ICT differs from using paint				
		the toy to follow		and paper.	4.Know how to organise	6.Know how to discuss their work and think about		
		their algorithm.	5.Know how to discuss their	4.14	images into more than	whether it could be improved.		
	4	Know how to dobug	work and think about how it could be improved.	4.Know how to create an illustration for a	two groups according to clear rules.			
	4.	Know how to debug their own programs	could be improved.	particular purpose.	clear rules.			
		then own programs		particular purpose.	5.Know how to sort			
	5.	Know how to make		5.Know how to save,	(order) images			
	٥.	predictions.		retrieve and change their	according to some			
		p		work.	criteria.			
				6.Know how to reflect on	6.Know how to ask and			
				their work and act on	answer binary (yes/no)			
				feedback received.	questions about their			
					images.			

	Year 2							
Unit	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer			
	Astronauts	Game Testers	Photographers	Detectives	Zoologists			
	1.Know how algorithms work as sequences of instructions.  2.Know how to convert simple algorithms to programs.  3. Know how to make predictions about what a simple program will do.  4.Know how to spot and fix (debug) errors in their programs.	1.Know how to describe carefully what happens in computer games.  2.Know how to use logical reasoning to make predictions of what a program will do.  3.Know how to test these predictions.  4.Know how to think critically about computer games and their use.  5.Know how to use games safely and in balance with other activities.	1.Know how to consider the technical and artistic merits of photographs.  2.Know how to use a digital camera or camera app.  3.Know how to take digital photographs.  4.Know how to review and reject or rate the images they take.  5.Know how to edit and enhance their photographs.  Know how to select their best images to include in a shared portfolio.	1.Know that email can be used to communicate.  2.Know how to develop skills in opening, composing and sending emails.  3.Know how to listen to audio files on the computer.  4. Know how to use appropriate language in emails.  5.Know how to develop skills in editing and formatting text in emails.  6.Know how to use Email safely.	<ol> <li>Zoologists</li> <li>1.Know how to sort and classify a group of items by answering questions.</li> <li>2.Know how to collect data using tick charts or tally charts.</li> <li>3.Know how to use simple charting software to produce pictograms and other basic charts.</li> <li>4.Know how to take, edit and enhance photographs.</li> <li>5.Know how to record information on a digital map</li> </ol>			

			Year	3	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer
Unit	Programmers	Bug Fixers	Vloggers	Communicators	Opinion Pollsters
Unit	1. Know how to create an algorithm for an animated scene in the form of a storyboard.  2. Know how to write a program in Scratch to create the animation.  3. Know how to correct mistakes in their animation programs.	1.Know how to use a number of strategies for finding errors in programs.  2.Know how to find the most suitable strategies for problem solving.  3.Know how to improve their knowledge and understanding of Scratch.  4.Know how to recognise a number of common types of bug in software.	1.Know how to use a search engine to learn about a new topic.  2.Know how to plan, design and deliver an interesting and engaging presentation.  3.Know how to search for and evaluate online images.  4.Know how to create their own original images.  5.Know how to create a video slidecast of a narrated presentation.  6.Know how to use internet, the web and search engines.	1.Know how a basic email works and use them safely.  2.Know how to send and receive emails.  3. Know how to work collaboratively with a remote partner.  4.Know how to use video conferencing.	1.Know how to use some elements of survey design.  2.Know why it is important to understand some ethical and legal aspects of online data collection.  3.Know how to use the web to facilitate data collection.  4.Know how to use charts to analyse data.  5.Know how to interpret results.

	Year 4								
Unit	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer				
	Software Developers	Toy Designers	Musicians	HTML Editors	Co-authors				
	1.Know how to develop an educational computer game using selection and repetition.  2. Know and be able to use variables.  3.Know how to debug computer programs.  4.Know how to recognise the importance of user interface design, including consideration of input and output.	1.Know how to design and make an on-screen prototype of a computer-controlled toy.  2.Know and be able to use different forms of input and output (such as sensors, switches, motors, lights and speakers).  3.Know how to link different forms of input and output.  4.Know how to design, write and debug the control and monitoring program for their toy.	1.Know how to use one or more programs to edit music.  2.Know how to create and develop a musical composition, refining their ideas through reflection and discussion.  3.Know how to develop collaboration skills.  4.Know how their composition can enhance work in other media.	1.Know and understand some technical aspects of how the internet makes the web possible.  2.Know how to use HTML tags for elementary mark up.  3.Know how to use hyperlinks to connect ideas and sources.  4.Know how to code up a simple web page with useful content.  5.Know and understand some of the risks involved in using the internet.	1.Know the conventions for collaborative online work, particularly in wikis.  2.Know their responsibilities when editing other people's work.  3.Know how to use Wikipedia, including potential problems associated with its use.  4.Know how to research information on the web.  5.Know how to write for a target audience using a wiki tool.  6.Know the importance of proofreading skills and use them.				

artwork and sound for a game.  2.Know how to design and create a computer program for a computer game, which uses sequence, selection, repetition and variables.  3.Know how to detect and correct errors in their computer game.  4.Know how to use iterative development techniques (making and testing a series of small changes) to improve their game.  semaphore and Morse code.  2.Know and understand the need for private information to be encrypted.  3.Know how to encrypt and decrypt messages in simple ciphers.  4.Know how to use complex passwords and to keep them secure.  5.Know how encryption works on the web.  5.Know how to devect omputer game.  5.Know how encryption works on the web.  5.Know how to devect omputer-generated.  5.Know how to use complex their work as they a development techniques (making and testing a series of small changes) to improve their game.	Year 5								
1.Know how to create original artwork and sound for a game.  2.Know how to design and create a computer program for a computer game, which uses sequence, selection, repetition and variables.  3.Know how to detect and correct errors in their computer game.  4.Know how to use iterative development techniques (making and testing a series of small changes) to improve their game.  1.Know how to use semaphore and Morse code.  2.Know and understand the need for private information to be encrypted.  3.Know how to encrypt and decrypt messages in simple ciphers.  4.Know how to use complex passwords and to keep them secure.  4.Know how to use iterative development techniques (making and testing a series of small changes) to improve their game.  5.Know how to use semaphore and Morse code.  2.Know and understand the need for private information to be encrypted.  3.Know how to encrypt and decrypt messages in simple ciphers.  4.Know how to use complex passwords and to keep them secure.  5.Know how encryption works on the web.  5.Know how encryption works on the web.	Autu	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer			
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	1.Kno artwo game 2.Kno create for a uses s repet 3.Kno corre comp 4.Kno devel (maki of sm	1.Know how to create original artwork and sound for a game.  2.Know how to design and create a computer program for a computer game, which uses sequence, selection, repetition and variables.  3.Know how to detect and correct errors in their computer game.  4.Know how to use iterative development techniques (making and testing a series of small changes) to improve	1.Know how to use semaphore and Morse code. 2.Know and understand the need for private information to be encrypted. 3.Know how to encrypt and decrypt messages in simple ciphers. 4.Know how to use complex passwords and to keep them secure. 5.Know how encryption	Spring 1  Artists  1. Know how to develop links between geometry and art.  2. Know how to use tools and techniques of a vector graphics package.  3. Know how to use turtle graphics.  4. Know how to experiment with the tools available, refining and developing their work as they apply their own criteria to evaluate it and receive feedback from their peers.  5. Know how to develop computer-generated art, in particular fractal-based					
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	Year 6								
Unit	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer				
	Computational	Advertisers	Network Technicians	Travel Writers	Publishers				
	Thinkers								
		1.Know how to think critically	1.Know that computer	1.Know how to research	1.Know how to manage or contribute to large				
	1.Know how to reason	about how video is used to	networks	a location online using a	collaborative projects, facilitated using online tools.				
	logically about algorithms.	promote a cause.	transmit and receive	range of resources					
			information digitally.	appropriately.	2.Know how to write and review content.				
	2.Know how some key	2.Know how to storyboard an							
	algorithms can be expressed	effective advert for a cause.	2.Know the basic hardware	2.Know how to safely	3.Know how to source digital media while				
	as programs.		needed	use mobile	demonstrating safe, respectful and responsible use.				
		3.Know how to work	for computer networks to	technology, including					
	3.Know that some algorithms	collaboratively to shoot	work.	GPS.	4.Know how to design and produce a high-quality				
	are more efficient than others	suitable original footage and			print document.				
	for the same	source additional content,	3.Know the key features of	3.Know how to capture					
	problem.	acknowledging intellectual	internet communication	images, audio and video					
		property rights.	protocols.	while on location.					
	4.Know common algorithms			_					
	for sorting and searching.	4.Know how to work	4. Know how domain	4.Know how to					
		collaboratively to edit the	names are converted to	showcase shared media					
	5.Know and appreciate	assembled content to make	numerical	content through a					
	algorithmic approaches to	an effective advert.	IP addresses.	mapping layer.					
	problems in mathematics.								