



Sacred Heart

Progression in Skills document: Computing

	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Digital Literacy Computing also ensures that pupils become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world	Communication							
					Understand that networks enable the sharing of data and information.	Understand what servers are and how they provide services to a network	Begin to use internet services to share and transfer data to a third party	Understand how computer networks enable computers to communicate and collaborate
					Understand that the internet is a large network and that information can be shared between computers.			Begin to use internet services within their own creations to share and transfer data to a third party
	Technology							
	30-50 months: Knows that information can be retrieved from computers	40-60 months: Uses ICT hardware to interact with age-appropriate computer software.	Recognize common uses of information technology in the home and school environment.	Recognize common uses of information technology beyond school	Recognize and make efficient use of familiar forms of input and output devices and how they are used.	To use input devices such as a camera or sensors		
	30-50 months: Knows how to operate simple equipment, e.g. turns on CD player and uses remote control.	ELG: Children recognise that a range of technology is used in places such as homes and schools.			Use simple search technologies.		Use filters in search technologies effectively	Use filters in search technologies effectively and evaluate the usefulness of their findings
	30-50 months: Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones.	ELG: They select and use technology for particular purposes.			Use simple search technologies and recognize that some sources are more reliable than others.	Understand how result are selected and ranked by search engines	Use filters in search technologies effectively and appreciate how result are selected and ranked by search engines	
	E-safety							
			Understand where to go for help and support when they have concerns about content or contact on online technologies	Use technology safely and keep information private.	Use technology safely and respectfully, keeping person information private.	Use technology responsible and understand that communication online may be seen by others.	Understand the need to only select age appropriate content	Identify a range of ways to report concerns about content and contact in and out of school.
					Use technology safely and recognize acceptable and unacceptable behavior	Understand where to go for help and support when they have concerns about content or contact on online technologies		

			Algorithm					
			Understand what algorithms are and how they are implemented.	Understand that programs execute by following instructions.	Use logical reasoning to explain how some simple algorithms work.	Use logical reasoning to detect and correct error in algorithms and programs	Use logical reasoning to explain how increasingly complex algorithms work to ensure they are efficient.	Use logical reasoning to explain how increasingly complex algorithms work and detect and correct errors to ensure they are efficient.

Information Technology. Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content.	Data handling (SCIENCE/MATHS)							
	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
								Analyse, evaluate and present data for use
	Publishing systems Web design							
			Use technology purposely to create digital content.	Use technology purposely to create, organize, store, manipulate and retrieve digital content. Comparing the benefits of different programs.	With support select and use a variety of software to accomplish goals.	With support select, use and combine a variety of software on a range of digital devices to accomplish goals	Independently select and use appropriate software to design and create content.	Independently select and use appropriate software to design and create content for a given audience.