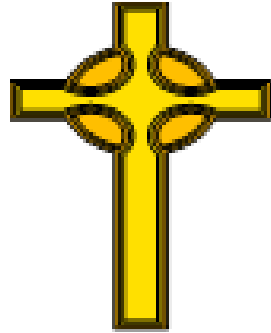


# Holy Cross Catholic Primary School



## Computing Progression Map 2025 - 2026

*We care, we share, we value.*

	Autumn Term	Spring Term	Summer Term
EYFS	<p><b>Digital Literacy</b> <b>"My Online Life"</b></p> <ul style="list-style-type: none"> <li>•To recognise and discuss common uses of information technology in school and outside of school.</li> <li>•To recognise that there are many different types of media content including; sound, images, books, podcasts/ audiobooks and video via the web.</li> <li>•To know that the Internet can be used to communicate with others.</li> <li>•Understand simple online safety rules.</li> <li>•To know that people create online content such as video and websites</li> </ul>	<p><b>Computer Science</b> <b>"Beats &amp; Rhythms"</b></p> <ul style="list-style-type: none"> <li>•To learn that an algorithm is a list of instructions that solves a problem</li> <li>•To sequence a series of events and explain the importance of sequencing.</li> <li>•To experiment controlling a range of 'toys' using remote controls and do this with purpose and direction.</li> <li>•Through play about action/reaction and will be asked "what do you think will happen?" when using technology or attempting to solve a problem.</li> <li>•To access the web on a classroom device</li> <li>•Through play learn about action/reaction and will be asked "what do you think will happen?" when using technology or attempting to solve a problem.</li> <li>•How to access the web on a classroom device.</li> <li>•To type keywords in a search engine (Google)</li> </ul>	<p><b>Information Technology</b> <b>"Animal Safari"</b></p> <ul style="list-style-type: none"> <li>•Learn how various devices and apps can be used in the classroom.</li> <li>•To independently choose an application for a particular purpose. e.g. drawing a picture.</li> <li>•To type keywords in a search engine (Google).</li> </ul>

Year 1	<p style="text-align: center;"><b>Digital Literacy</b> <b>“My Online Life”</b></p> <ul style="list-style-type: none"> <li>• To learn about the uses and purpose of technology in the classroom, at home, work and the world around them.</li> <li>• To learn about some of the common ways in which technology at home can be used.</li> </ul>	<p style="text-align: center;"><b>Computer Science</b> <b>“My friend the Robot”</b></p> <ul style="list-style-type: none"> <li>• To explore algorithms and sequencing of instructions.</li> <li>• To read, follow and create a simple sequence algorithm.</li> <li>• To give instructions so that they can be executed by a robot with the aim of successfully reaching a destination.</li> <li>• To create a simple program and correct mistakes (debug).</li> <li>• To make predictions when using technology.</li> <li>• To learn about signing into a device or online platform.</li> <li>• To learn how they can use a search engine to find answers and different types of media e.g. videos.</li> </ul>	<p style="text-align: center;"><b>Information Technology</b> <b>“Mini-Beasts”</b></p> <ul style="list-style-type: none"> <li>• To create different types of digital content (short video, ebook or presentation).</li> <li>• To combine text and images in a document that showcases learning or tells a story.</li> <li>• To use technology to collect, sort and display information that could include data, photos, video or sound.</li> <li>• To understand about saving work in a special place and retrieve it again. how they can use a search engine to find answers and different types of media category.</li> </ul>
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Year 2	<p style="text-align: center;"><b>Digital Literacy</b> <b>“My Online Life”</b></p> <ul style="list-style-type: none"> <li>• To know about the numerous methods of online communication and how it is used in the world around them.</li> <li>• To explore their own use of the internet and why it is important to stick to the rules.</li> <li>• To know where different types of media content can be found online. Including; sound, images, books, podcasts/ audiobooks and video via the web.</li> <li>• To know about safe and unsuitable sites/apps. e.g. PEGI rating.</li> <li>• To know to talk to a trusted adult before sharing personal information online and using strong passwords.</li> <li>• To know that the characters and people they interact with may be computer generated / including games.</li> <li>• To know the differences between the Internet and the physical world.</li> <li>• To know how to send a message and why it is important to communicate in a polite manner.</li> <li>• To know that login details and passwords should only be shared with trusted adults.</li> <li>• To know that copyright is something that prevents people stealing other people's work (content).</li> <li>• To know what personal information is and that they need to talk to a trusted adult before sharing online.</li> <li>• To know how some information may be inaccurate or untrue.</li> </ul>	<p style="text-align: center;"><b>Computer Science</b> <b>“Making Games”</b></p> <ul style="list-style-type: none"> <li>• To learn about writing algorithms that can be turned into programs.</li> <li>• To implement algorithm as a program on a digital device or programmable toy/ robot</li> <li>• To independently identify and fix a 'bug' in multiple programs.</li> <li>• To create a simple program that includes a repeat x times loop.</li> <li>• To know the difference between inputs and outputs.</li> <li>• To offer accurate predictions of programs and then create a simple program to check if predictions were correct.</li> <li>• To know that multiple services use the internet e.g. email, web and streaming</li> <li>• To know the basic skills of searching and navigating the results in a search engine.</li> </ul>	<p style="text-align: center;"><b>Information Technology</b> <b>“Presentations and Typing”</b></p> <ul style="list-style-type: none"> <li>• To create a presentation or basic digital book that is well designed, contains formatted text, images and presents information.</li> <li>• To read a simple database to find information. about organising the data collected.</li> <li>• To create digital content using more than one app or piece of software.</li> <li>• To independently save and open files on the device they use.</li> <li>• To know the basic skills of searching and navigating the results in a search engine to answer questions.</li> </ul>
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|  | <ul style="list-style-type: none"><li>• To independently use a search engine, navigate a website, use favourites, bookmarks or typing the URL.</li><li>• To know that you can be connected to many people in life (real life and online).</li><li>• To ensure a trusted adult is aware of who they are interacting with online.</li><li>• To explain some of the potential risks when posting something to the internet.</li><li>• To now that once something is posted others can read the post and share it.</li></ul> |  |  |
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<p><b>Year 3</b></p>	<p><b>Digital Literacy</b> <b>“My Online life”</b></p> <ul style="list-style-type: none"> <li>• How to make judgements about the usefulness and accuracy of information.</li> <li>• To learn about the term ‘fake news’ and about what copyright is, why we have copyright laws and to recognize copyright material.</li> <li>• To know the SMART rules about using the internet safely and responsibly.</li> <li>• What personal information is and what they shouldn’t be sharing.</li> <li>• To know that they should pause before posting and consider the potential consequences.</li> <li>• To know who they should seek help from about online concerns.</li> <li>• To know the correct and sensible choice when presented with hypothetical scenarios.</li> <li>• How to send and reply to online messages, such as email, respectfully and understand the difference between online and face-toface.</li> <li>• How to use the safety features of websites as well as reporting concerns to an adult they trust.</li> <li>• To know what online bullying/cyberbullying is and some of the forms it can take and how to report any concerns and who they consider a trusted adult.</li> <li>• To now that they need to have a balanced approach to their use of technology and to make good choices about how long they spend online.</li> </ul>	<p><b>Computer Science</b> <b>“Programming With Robots”</b></p> <ul style="list-style-type: none"> <li>• To create a detailed flow diagram using the correct symbols.</li> <li>• To turn an algorithm into a simple program on a digital device.</li> <li>• To test the program and recognising when it needs to be debugged.</li> <li>• To create their own sprite in Scratch/Scratch Jr.</li> <li>• To learn about sequencing commands and adding a repeat command in a program.</li> <li>• How to refine/improve a program by using the repeat command.</li> <li>• How to create a variable.</li> <li>• How to create a program that contains selection, inputs and outputs.</li> <li>• To use logical reasoning to detect potential problems in an algorithm or program which could result in something going wrong and then offer ideas of what is needed to fix/debug it.</li> <li>• To know that the World Wide Web is only one part of the Internet, the part that contains websites.</li> <li>• To send an email and understand how this works.</li> <li>• How information travels through computer networks.</li> <li>• That search engines try to put the most useful websites at the top.</li> </ul>	<p><b>Information Technology</b> <b>“T-Shirt Designer”</b></p> <ul style="list-style-type: none"> <li>• To create digital content using a range of mixed tools/media and how to improve its design.</li> <li>• To be creative and independent while using unfamiliar apps or technology to create content.</li> <li>• To create a plan/storyboard when producing digital content.</li> <li>• To design a simple questionnaire to collect information, and display the information in a graph or table.</li> <li>• To add information to a database.</li> <li>• To know that the top search results can be manipulated and are based on things like most popular, recently updated.</li> <li>• To know about filtering results by adding more detail or using advanced tools.</li> <li>• To use search engines to collect information.</li> </ul>
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|  | <ul style="list-style-type: none"><li>• To recognise websites and games appropriate for their age. e.g. PEGI rating and know that online accounts need to be signed in to and why passwords should never be shared.</li><li>• To know what makes a secure password and why they are important and that they know how to use a password security checking tool.</li><li>• To know what represents an online identity e.g. images, username, information shared and digital footprint.</li><li>• To only post positive comments online.</li></ul> |  |  |
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Year 4	<p style="text-align: center;"><b>Digital Literacy</b> <b>“My Online Life”</b></p> <ul style="list-style-type: none"> <li>• To learn to differentiate between apps that use the Internet, the school network or that are self-contained on a device.</li> <li>• To use computing to communicate and collaborate.</li> <li>• To learn about documents and methods of collaboration over the internet e.g. blog.</li> <li>• To understand more about what Fake News is, it's purpose and that Fake News can be found on all media.</li> <li>• To learn how to identify Fake News and that data can be manipulated to make Fake News appear to be true.</li> <li>• To understand the potential risks and ways they can protect themselves and friends from harm online.</li> <li>• To learn about the safety features of websites and apps. e.g. block or report and that they should report concerns to a trusted adult.</li> <li>• To understand that the Internet is a great place to develop rewarding relationships.</li> <li>• To not reveal private information to a person they know only online and that that friends/followers profiles may not reflect the truth about their real lives.</li> <li>• To know the term ‘digital footprint’ and that the information they put online leaves a digital footprint or “trail” which can be positive and negative.</li> <li>• To know how to search for their own</li> </ul>	<p style="text-align: center;"><b>Computer Science</b> <b>“Inventors and Designers” (MicroBits).</b></p> <ul style="list-style-type: none"> <li>• To design a simple algorithm to show a real- life situation.</li> <li>• To understand about the valuable skills of abstraction and decomposition when tackling more complex problems.</li> <li>• To learn about the structure of a program and learn to plan in logical, achievable steps.</li> <li>• To write a complex program, incorporating features such as selection, inputs, repetition, variables and procedures.</li> <li>• To attempt to debug their own programs and corrects/debugs errors in code.</li> <li>• To recognise an error in an existing program and attempt to debug/fix the program.</li> <li>• To investigate existing programs, evaluating them and consider how they could be improved.</li> <li>• To learn about the key services that can be used to communicate on the internet.</li> <li>• To recognise the main components (hardware) which allow computers to join and form a network.</li> <li>• To know that search engines use algorithms to sort websites.</li> </ul>	<p style="text-align: center;"><b>Information Technology</b> <b>“Endangered Animals”</b></p> <ul style="list-style-type: none"> <li>• To produce documents, media and presentations with increasing independence and competency that present data/information.</li> <li>• To use a keyboard confidently and make use of tools such as spellchecker.</li> <li>• To learn about new forms of technology E.g. AR, Virtual Reality, Wearable Technology etc.</li> <li>• To search for and use information from a range of sources.</li> <li>• To learn about making notes from information found on websites to present their findings.</li> <li>• To recognise that not all sources of information including websites are accurate and can check information using a different sites.</li> </ul>
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name and usernames in Google to test their digital footprint.

- To know how they should act appropriately & respectfully online.
- To know how to deal with online bullying.
- To recognise how photos can be altered digitally and the creative upsides of photo alteration, as well as its power to distort perceptions of beauty and health.
- To know why copyright laws exist and presenting others work as one's own is called plagiarism.
- To understand that they can use a copyright free image gallery, or they can change the search criteria.
- To know the positive and negative effects technology may have on their health.
- To know why they need to ask a trusted adult before downloading files and games from

Year 5	<b>Digital Literacy</b> <b>“My Online Life”</b> <ul style="list-style-type: none"> <li>• To demonstrate and explain the importance of communicating kindly and respectfully.</li> <li>• To learn about the negative online behaviours such as bullying, trolling, grieving and harassment.</li> <li>• To learn about empathy and the effects of online bullying and that anything they post online can be seen, re-shared, re-used and may have a negative effect on others.</li> <li>• To learn about the ‘Digital 5 a Day’ plan and that they need to have a balanced approach to their use of technology.</li> <li>• To know what makes a secure username and password.</li> <li>• To know why people set up fake accounts or copy others identities.</li> <li>• To know what an online identity or internet persona is, e.g. social identity in online communities and websites (Facebook, Instagram, YouTube etc) including photos and posts.</li> <li>• To know how to avoid being tricked by scammers online. e.g. Phishing emails.</li> <li>• To explain why an app may be free but have in-app-purchasing and what that is.</li> </ul>	<b>Computer Science</b> <b>“Lost IN Space”</b> <ul style="list-style-type: none"> <li>• To explore problem solving and decomposition.</li> <li>• To independently plan, write and test their algorithms and create more complex programs, debugging as needed.</li> <li>• To learn about controlling / simulating physical systems and using sensors with multiple outcomes.</li> <li>• To create their own complex game within Scratch or other block based coding app that uses variables, event handling, selection (“If” and “Then”), procedures and repetition (loops) to increase programming possibilities.</li> <li>• To explore logical reasoning in greater depth and learn to give wellthought-through explanations of any errors they identify in program code (using the correct terminology).</li> <li>• To learn about software, hardware and types of connected computers and how data travels via the internet including binary.</li> <li>• To learn more about the different parts of the Internet and services and to create a basic web page using HTML</li> <li>• To learn key skills for using a search engine and the settings that can alter search results.</li> </ul>	<b>Information Technology</b> <b>“Making AR Games”</b> <ul style="list-style-type: none"> <li>• To produce digital content in a given format e.g. podcasts, videos, AR, virtual reality, 3D, digital music or illustrations.</li> <li>• To learn about planning including elements that they may need to source from other services.</li> <li>• To build on the skills they have already developed to create content using unfamiliar technology.</li> <li>• To use a spreadsheet/database to collect, record data and to use simple formulae.</li> <li>• To learn about different online communication tools/apps and how they could be used for different purposes e.g. work and social.</li> <li>• To learn about working in a group using collaborative tools.</li> <li>• To learn how and why information found on some sites will be biased.</li> <li>• Learn how to source copyright free materials to use in their digital projects.</li> <li>• How to credit the use of websites in their work and why this should be done.</li> </ul>
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Year 6	<p style="text-align: center;"><b>Digital Literacy</b> <b>“My Online Life”</b></p> <ul style="list-style-type: none"> <li>• To learn about digital crimes and threats that might exist online. E.g. worms, trojans, viruses, spyware, ransomware and malware.</li> <li>• To learn about anti-virus software and how they can help protect devices from infection.</li> <li>• To know about advanced web terminology e.g. firewall, security updates, pop up blocker, scams, phishing, HTTPs, location based settings, in app purchasing, trolling, filtering etc.</li> <li>• To explore in more depth the legal and moral reasons not to plagiarise or infringe copyright and the impact it can have on the creator of the content.</li> <li>• To learn about the advice they should/would give friends about making good choices online and the consequences of making poor online choices. E.g. Online bullying, Inappropriate comments (racially or sexually orientated), uploading inappropriate material (adult / illegal / antisocial), accessing inappropriate sites (anti-social or illegal behaviour / adult content) and breaching copyright laws.</li> <li>• To understand the way men and women can be stereotyped in movies and TV.</li> <li>• To know when to seek help from a trusted adult and not to try and deal with online situations on their own.</li> </ul>	<p style="text-align: center;"><b>Computer Science</b> <b>“Fun with Code and Electronics”</b></p> <ul style="list-style-type: none"> <li>• To create complex algorithms and turn their designs into a program (incorporating variables, procedures and different forms of input and output).</li> <li>• To know about complex programs and are encouraged to persevere when solving difficult problems even if the solution is not obvious.</li> <li>• About executing and adapting common commands using a text-based language e.g. Python/Javascript/SwiftPlayground. to independently</li> <li>• To use logical reasoning to detect and correct errors in an algorithm and program.</li> <li>• To recognise that there is often more than one way to solve a problem in an algorithm or program.</li> <li>• To learn in more detail about how information/data is transported on the Internet and between computers using packets and IP addresses.</li> <li>• To learn about the opportunities computer networks and the internet offer for communication and collaboration.</li> <li>• To explore advanced features within search engines and learn to use them effectively.</li> <li>• To know how search results are selected and ranked by algorithms.</li> </ul>	<p style="text-align: center;"><b>Information Technology</b> <b>“VR Worlds”</b></p> <ul style="list-style-type: none"> <li>• To learn how to create digital storyboards with a complete narrative of the project or investigation.</li> <li>• To confidently identify the potential of unfamiliar technology to increase their creativity.</li> <li>• To source, store and combine copyright free images from the internet.</li> <li>• To independently select, use and combine the appropriate technology/app tools to create effects that will have an impact on others and tell a story.</li> <li>• To use complex searches, filters and advanced tools to find, select and use information.</li> </ul>
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|  | <ul style="list-style-type: none"><li>• To know how to block and report inappropriate comments or behaviour online.</li><li>• How to maintain healthy positive relationships with others while online.</li><li>• To recognise behaviours and strategies to prevent and stop online bullying.</li><li>• To know and list the websites and agencies they can contact in case they need help.</li><li>• To know what steps they can take to create a 'positive online image' including defining acceptable and unacceptable online behaviour and the benefits this will have to them now and in the future.</li></ul> |  |  |
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