



St. Paulinus Catholic Primary School

Inspiring all to live, learn and love in the light of Jesus (cf John 8:12)



One Page Progression Profile Subject: Computing

| Key Area | EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|------------------|---|---|--|---|--|--|--|
| Computer Science | <p>Complete a simple program on a computer.</p> <p>Use hardware to interact with an age-appropriate computer software.</p> <p>Know the cause and effect of buttons and switches.</p> <p>Explain how things work.</p> <p>Know sensible amounts of 'screen time'.</p> | <p>Know that an algorithm written for a computer is called a program and is a set of instructions used to solve a problem or achieve an objective.</p> <p>Know what is wrong with a simple algorithm when the steps are out of order, write own simple algorithm and make logical attempts to fix code.</p> <p>When looking at a program, children can read code one line at a time and make good attempts to envision the bigger picture of the overall effect of the program.</p> | <p>When designing simple programs, children show an awareness of the need to be precise with their algorithms so that they can be successfully converted into code.</p> <p>Children can create a simple program that achieves a specific purpose. They can also identify and correct some errors.</p> <p>Program designs display a growing awareness of the need for logical, programmable steps.</p> <p>Children can identify the parts of a program that respond to specific events and initiate specific actions.</p> | <p>Create an algorithm for a program by deconstructing it into manageable parts, identify errors and be able to fix them.</p> <p>Be able to design and code a program in logical, achievable steps that follows a simple sequence and use timers achieve repetition effects (knowing the difference between a timer command and a repeat command).</p> <p>Know how variables can be used to store information while a program is executing.</p> <p>Know a range of ways that the internet can be used to provide different methods of communication and describe appropriate email conventions.</p> | <p>Make more intuitive attempts to debug their own programs, use timers, trace code and use step through methods to identify errors and read programmes; predicting outcomes accurately.</p> <p>Understand 'if statements' for selection and attempt to combine these with other coding structures; knowing how to use and manipulate the value of variables.</p> <p>Know how to make use of user inputs and outputs such as 'print to screen'.</p> <p>Know the main component parts of hardware which allow computers to join and form a network.</p> <p>Know implications associated with the ways the internet can be used.</p> | <p>Test and debug own programs, use logical methods to identify the approximate cause of any bug, translate algorithms that include sequence, selection and repetition into code.</p> <p>Know how to combine sequence, selection and repetition with other coding structures.</p> <p>Able to use tabs to organise code and the naming of variables.</p> <p>Know the value of computer networks and the main dangers.</p> <p>Know what personal information is and can explain how this can be kept safe and select the most appropriate form of online communications.</p> | <p>Able to turn a more complex programming task into an algorithm and be able to decompose them in a logical way and put the separate parts of a complex algorithm together to explain the program as a whole.</p> <p>Use logical methods and a systematic approach to identify the cause of bugs.</p> <p>Know variables in coding, outputs such as sound and movement, inputs from the user of the program such as button clicks and the value of functions.</p> <p>Know the difference between the internet and the World Wide Web, what a WAN and LAN are and how they access the Internet in school.</p> |

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|--------------------------------------|---|--|--|---|--|--|---|
| <p>Information Technology</p> | <p>Use a range of media in their own story.</p> <p>Try new activities, saying why they like some activities more than others.</p> <p>Speak in a familiar group, talk about ideas, and resources needed for chosen activities.</p> | <p>Know how to sort, collate, edit and store simple digital content.</p> | <p>Know how to organise data and retrieve specific data for conducting simple searches.</p> <p>Know how to edit more complex digital data.</p> <p>Know how to create, name, save and retrieve content.</p> <p>Use a range of media in their digital content including photos, text and sound.</p> | <p>Know how to carry out simple searches to retrieve digital content.</p> <p>Know how to collect, analyse, evaluate and present data and information.</p> <p>Consider what software is most appropriate for a given task.</p> <p>Create purposeful content to attach to emails.</p> | <p>Know the function, features and layout of a search engine, appraising webpages for credibility and information.</p> <p>Know how to make improvements to digital solutions.</p> <p>Make informed software choices when presenting information and data.</p> <p>Share digital content within the community.</p> | <p>Know how to search for digital content and how credible a webpage is and the information it contains.</p> <p>Confidently comment on the success of solutions.</p> <p>Collaboratively create content and solutions using digital features within software and know several ways of sharing digital content</p> | <p>Apply filters when searching for digital content, rating it in terms of content quality and accuracy.</p> <p>Design and create own blogs and digital content, making clear connections to the audience and using critical thinking skills.</p> <p>Evaluate the quality of digital solutions and identify improvements.</p> |
| <p>Digital Literacy</p> | <p>Know how to keep safe when using the internet.</p> <p>Know when they do or don't need help.</p> | <p>Know what is meant by technology and can identify a variety of examples.</p> <p>Make a distinction between objects that use modern technology and those that do not.</p> <p>Know the importance of keeping information private and how to save work in own private space,</p> | <p>Know how to retrieve relevant, purposeful digital content using search engines and the implications of inappropriate online searches, making links between technology, coding and multimedia work.</p> <p>Begin to understand how things are shared electronically, how to use email safely and ways of reporting inappropriate behaviours and content.</p> | <p>Know the importance of having a secure password and not sharing this with anyone else and the negative implications of failure to do so.</p> <p>Know the importance of staying safe and conduct when using familiar communication tools</p> <p>Know ways to report unacceptable content and contact.</p> | <p>Explore key concepts relating to online safety using concept mapping.</p> <p>Help others to understand the importance of online safety.</p> <p>Know ways of reporting inappropriate content and contact.</p> | <p>Know common online safety rules safely and respectfully use different technologies and online services.</p> <p>Implicitly relate appropriate online behaviour to the right to personal privacy and mental wellbeing.</p> | <p>Know the safe and respectful use of different technologies and online services.</p> <p>Identify more discreet inappropriate behaviours through developing critical thinking.</p> <p>Know the value in preserving privacy when online for safety.</p> |

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