St. Margaret's C.E. Junior School Progression of Skills & Knowledge in Computing 2023-24

	Year 5 Concepts	Year 6 Concepts
Computer Systems & Networks	 Describe that a computer system features inputs, processes, and outputs Explain that computer systems communicate with other devices and built using a number of parts Know tasks that are managed by computer systems and human elements of a computer system Compare results from different search engines Use a web search to find specific information and refine a web search Recognise the role of web crawlers in creating an index Relate a search term to the search engine's index Know that a search engine follows rules to rank results Give examples of criteria used by search engines to rank results Describe some of the ways that search results can be influenced Explain how search engines make money Know some of the limitations of search engines 	 Know computers use addresses to access websites Know that internet devices have addresses Know that data is transferred using agreed methods Know that all data transferred over the internet is in packets and identify the main parts Know data is transferred over networks in packets Explain that the internet allows different media to be shared Access shared files stored online and send information over the internet in different ways Know how the internet enables effective collaboration and can be public or private Choose methods of communication to suit particular purposes* Compare/use different methods of communicating on the internet* Know when and when not to share information online*
Programming	Selection in Physical Computing (Programming A) Create a simple circuit and connect it to a microcontroller Explain what an infinite loop does Program a microcontroller to make an LED switch on Design and use sequences that are count-controlled loops Know that a condition is either true or false Program a microcontroller to respond to an input Know that a condition being met can start an action Use selection (an 'ifthen' statement) to direct the flow of a program Describe what my project will do Know a real-world example of a condition starting an action Test and debug my project Use selection to produce an intended outcome Write an algorithm that describes what my model will do Selection In Quizzes (Programming B) Identify and modify conditions in a program Know how conditions are used in selection Create a program with different outcomes using selection Know the condition and outcomes in an 'if then else' statement Use selection in an infinite loop to check a condition Explain how selection directs the flow of a program Design a project that uses selection Create and test a program which uses selection Create and test a program which uses selection Identify how the project could be improved	Variables in games (Programming A) • Know that the way a variable change can be defined • Identify examples of information that is variable • Identify that variables can hold numbers or letters • Know a variable has a name and a value • Identify a program variable as a placeholder in memory for a single value • Recognise that the value of a variable can be changed • Know where in a program to change a variable • Use of an event in a program to set a variable • Create algorithms for my project and explain my design choices • Choose a name that identifies the role of a variable • Test and debug the code • Evaluate and extend project Sensing movement (Programming B) • Apply my knowledge of programming to a new environment • Test a program on an emulator - transfer to a controllable device • Determine the flow of a program using selection • Identify examples of conditions in the real world • Use a variable in an if, then, else statement to select the flow of a program • Know that checking a variable doesn't change its value • Use a condition to change a variable • Know the importance of the order of conditions in else, if statements • Modify a program to achieve a different outcome • Use an operand (e.g. <>=) in an if, then statement • Design the algorithm for my project including variables • Design the program flow for my project

Nick Williams 1

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