

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

	Year 5 Concepts	Year 6 Concepts
Computer Systems &	<p><u>Sharing Information (New Unit)</u></p> <ul style="list-style-type: none"> Develop understanding of computer systems Know how information is transferred between systems and devices. Explain the input, output, and process aspects of a variety of different real-world systems. Develop their skills in working together online 	<p><u>Communication</u></p> <ul style="list-style-type: none"> Know that a search engine follows rules to rank relevant pages Know why the order of results is important, and to whom Use search engines efficiently Evaluate different methods of online communication
Programming	<p><u>Crab Maze</u></p> <ul style="list-style-type: none"> Decomposition of block code Use variables to collect score Use loops Use conditional selection to improve game 	<p><u>Variables in games</u></p> <ul style="list-style-type: none"> Know why a variable is used in a program Design a project that builds on a given example Use a design to create a project and test code Evaluate my own and other's projects
Creating Media	<p><u>Video Editing</u></p> <ul style="list-style-type: none"> Create a video with a clear beginning, middle, and end Know appropriate filming techniques Edit the video to join scenes, matching the storyboard 	<p><u>3D Modelling</u></p> <ul style="list-style-type: none"> Manipulate three-dimensional (3D) digital objects Know why we might represent 3D objects on a computer Construct a digital 3D model of a physical object Design a digital model by combining 3D objects <p><u>Webpage Creation</u></p> <ul style="list-style-type: none"> Know that websites are written in HTML Plan the features of a web page To know why I should use copyright-free images Create a webpage including navigation and hyperlinks Evaluate my own and others webpages
Data & Information	<p><u>Introduction to Spreadsheets</u></p> <ul style="list-style-type: none"> Know what a spreadsheet does Manipulate numbers using formulas Use tabs, format, merge and recognise cells 	<p><u>Spreadsheets</u></p> <ul style="list-style-type: none"> Create a spreadsheet to solve a problem Understanding the relationship between the cell data and the point on the bar or line graph Knowing how to graph successfully Use spreadsheet to model changes
Online Safety	<p><u>Online Reputation</u></p> <ul style="list-style-type: none"> Know what should and shouldn't be shared online Know that the information I find online may not be accurate and that people make judgements based on this information <p><u>Apps</u></p> <ul style="list-style-type: none"> Know what in-app purchasing is Know the benefits and risks of in-app purchasing 	<ul style="list-style-type: none"> Know how to report concerns and how I would support others Know how sharing something online may have an impact either positively or negatively Know impulsive and rash communications online may cause problems Recognise issues online that might make me or others feel sad, worried, uncomfortable or frightened Know that online others can pretend to be someone else including fake profiles