



Computing Overview at Our Lady of the Assumption - Curriculum Map

Autumn – Information Technology

Spring – Digital Literacy

Summer – Computer Science

Year 1	<u>Netbook familiarisation</u> Logging onto netbooks. Using mouse/typing on keyboard. Save, name and retrieve work. Follow simple instructions to access online resources.	<u>Online Safety</u> Keeping usernames/passwords safe. Importance of privacy. Taking ownership of their own PurpleMash file.	<u>2go Bubbles (Purple Mash)</u> To understand an algorithm is an instruction to move/manipulate an object. Begin to solve problems with algorithms. Begin to read and interpret code i.e. where will an object end up? <u>Bee-Bots</u> Give accurate commands. Explore what happens when a sequence of instructions is given.
Year 2	<u>2sequence (Purple Mash)</u> To edit digital data i.e. music compositions Save, name and retrieve content Use a range of media i.e. photos, text, sound, importing own recordings etc	<u>Online Safety</u> Appropriate searching. Understanding how work is shared. How to report inappropriate behaviour and content/who to report to?	<u>2code Turtle (Purple Mash)</u> To understand an algorithm is an instruction to move/manipulate the turtle. Understand and show awareness of using precise algorithms. Use logical programmable steps. Plan/program specific events, actions – cause and effect. <u>Bee-Bots</u> Give a set of simple instructions to follow a task. Give a set of instructions to form simple geometric shapes. Improve/change their sequence of commands.
Year 3	<u>2respond (Purple Mash)</u> To carry out simple searches using PurpleMash and search engines to retrieve digital content. To select appropriate software.	<u>Online Safety</u> Understand the importance of a 'secure' password – no sharing.	<u>2code Traffic Lights (Purple Mash)</u> Demonstrate ability to design and code algorithms to follow a simple sequence. Use timers, repetition, 'IF' statements.

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	<i>2respond (email) - who to? Message subject, layout, font, sizing, images, attachments etc.</i>	<i>Explain negative implications of failure to keep passwords safe/secure.</i> <i>Explore how to report content and to who.</i> <i>How to stay safe online and importance of their own conduct.</i>	<i>Program logical steps i.e. changing the traffic lights colour.</i>
Year 4	<u>Effective Searching</u> <i>Understand the function, features and layout of a search engine.</i> <i>Identify and appraise credible webpages.</i>	<u>Online Safety</u> <i>Explore key concepts.</i> <i>Help others to understand internet safety – KS1.</i> <i>Know a range of ways to report inappropriate content.</i> <i>Know a range of people to seek advice from and report inappropriate content to.</i>	<u>2logo (Purple Mash)</u> <i>Use computer programming language to control the turtle.</i> <i>Use commands and algorithms to explore shapes.</i> <i>Understand 'IF' statements.</i> <i>Use inputs/outputs when coding.</i> <i>Use the print screen key.</i>
Year 5	<u>2blog/2email - Networks (Purple Mash)</u> <i>Understand the value/dangers of computer network.</i> <i>To save, share and retrieve digital content.</i> <i>Online audience.</i>	<u>Online Safety</u> <i>Have a secure knowledge of online safety rules.</i> <i>Demonstrate safe and respectful use of different technologies and online services.</i> <i>Understand the importance of appropriate online behaviour, personal privacy and mental wellbeing of themselves as well as others.</i>	<u>2code Day and Night (Purple Mash)</u> <i>Use computer programming language and algorithms.</i> <i>Use a variety of variables, times and 'IF' statements to loop scenes.</i>
Year 6	<u>Effective Searching</u> <i>To apply filters, on creditable webpages, when searching for digital content.</i> <i>To use a variety of online resources.</i> <i>Develop critical thinking skills.</i>	<u>Online Safety</u> <i>Demonstrate safe and respectful use of technologies and a range of online services.</i> <i>Understand the value of preserving privacy and other people's safety.</i>	<u>Internet 'v' The World Wide Web</u> <i>To explain in depth difference between the internet and The WWW.</i> <i>Know WAN and LAN.</i> <i>Understand how the internet works.</i> <i>Understand how the internet is accessed in school.</i>

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