

Computing Year 3 Long Term Plan

Key

Predominant Areas of Computing		
Information Technology	Computer Science	Digital Literacy

	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>
Year 3	Coding (6) <ul style="list-style-type: none"> Design a program using algorithms for a real life problem. Design an algorithm carefully, thinking about what I want it to do and how I can turn it into code. Design a program thinking logically about the sequence of steps required. Experiment with timers in my programs. Experiment with the effect of using repeat commands. Read programs with several steps and predict what it will do. 	Online Safety (4) <ul style="list-style-type: none"> Know what makes a safe password. Learn methods for keeping passwords safe Understand the importance of having a secure password and not sharing it with others. Understand the negative consequences of not keeping passwords safe and secure. Understand the importance of keeping safe online and behaving respectfully. Use communication tools such as 2Email 	Touch typing (6) <ul style="list-style-type: none"> Use typing terminology. Understand the correct way to sit at the keyboard. Learn how to use the home, top and bottom row keys. Practise typing with the left and right hand. 	Email (6) <ul style="list-style-type: none"> Discuss different methods of communication. Open and respond to an email using an address book. Learn how to use email safely. Explore a simulated email scenario. Use communication tools such as 2Email respectfully and use good etiquette. Report unacceptable content and contact online in more than one way to a trusted adult. Identify different ways that the internet can be used for communication. 	Simulations (3) <ul style="list-style-type: none"> Consider what simulations are. Explore a simulation. Analyse and evaluate a simulation.

	<ul style="list-style-type: none"> • Understand what a flowchart is and how flowcharts are used in computer programming. • Understand that there are different types of timers and select the right type for purpose. • Understand how to use the repeat command. Understand the importance of nesting. • Design and create an interactive scene. 	<p>respectfully and use good etiquette.</p> <ul style="list-style-type: none"> • Report unacceptable content and contact online in more than one way to a trusted adult. • Consider the truth of the content of websites. • Learn about the meaning of age restrictions symbols on digital media and devices. • Understand how the Internet can be used in effective communication. <p>Understand how a blog can be used to communicate with a wider audience.</p>		<ul style="list-style-type: none"> • Use email such as 2Email to respond to others appropriately and attach files. • Create purposeful (appropriate) content and attach this to emails. 	
		<p>Spreadsheets (3)</p> <ul style="list-style-type: none"> • Carry out searches to find digital content on a range of online systems, such as within Purple Mash or on an internet search engine. • Collect data and input it into software. 		<p>Branching Databases (2)</p> <ul style="list-style-type: none"> • Carry out searches to find digital content on a range of online systems, such as within Purple Mash or on an internet search engine. • Collect data and input it into software. 	<p>Graphing (3)</p> <ul style="list-style-type: none"> • Carry out searches to find digital content on a range of online systems, such as within Purple Mash or on an internet search engine. • Collect data and input it into software.

		<ul style="list-style-type: none"> Analyse data using features within software to help such as, formula in 2Calculate (spreadsheets). Consider what the most appropriate software to use when given a task by my teacher. 		<ul style="list-style-type: none"> Present data and information using different software such as 2Question (branching database tool). Consider what the most appropriate software to use when given a task by my teacher. Sort objects using just 'yes' or 'no' questions. Complete a branching database using 2Question. <p>Create a branching database of the children's choice.</p>	<ul style="list-style-type: none"> Present data and information using different software such as 2Graph (graphing tool). Consider what the most appropriate software to use when given a task by my teacher.
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