



Whipton Barton Federation Computing Long Term Curriculum Map

At Whipton Barton Federation, we believe that technology plays a significant role in society today. Children are taught the skills and the correct morals, values and ethics to participate effectively and safely in this digital world which can only be achieved through a broad and diverse Computing curriculum.

Children in our EYFS classes learn to use technology in a responsible, competent and confident manner on a day-to-day basis during their independent learning through the use of Ipads, Beebots and Microsoft Surfaces. Throughout their Reception year, children will begin to understand the scope of technology; using Google Earth to look at their local area and other countries around the world; using Purple Mash to design and create art work; and using Ipads to record their learning with photos and videos. The planned experiences and opportunities that the children encounter provided with them with firm foundations to build upon their knowledge and develop digital literacy for future learning.

At the core of our Key Stage One and Key Stage Two Computing curriculum, children are introduced to a wide range of technology, including PCs, iPads and interactive whiteboards, allowing them to continually practice and improve the skills they learn. This ensures they become digitally literate so that they are able to express themselves and develop their ideas through information and computer technology.





Our Computing curriculum enables children to become effective users of technology who can:

- 🌐 Understand and apply the essential principles and concepts of Computer Science, including logic, algorithms and data representation;
- 🌐 Analyse problems in computational term, and have repeated practical experience of writing computer programs in order to solve such problems;
- 🌐 Evaluate and apply information technology analytically to solve problems;
- 🌐 Communicate ideas well by utilising appliances and devices throughout all areas of the curriculum.

Internet Safety

At Whipton Barton Federation, we take internet safety extremely seriously. We have an Internet Policy that provides guidance for teachers and children about how to use the internet safely. The first term of each academic year all children participates in e-safety lessons so that children understand how to stay safe online and report any concern they may have when using technology.



Year	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Reception	Children in our EYFS classes learn to use technology in a responsible, competent and confident manner on a day-to-day basis during their independent learning through the use of Ipads, Beebots and Microsoft Surfaces. Throughout their Reception year, children will begin to understand the scope of technology; using Google Earth to look at their local area and other countries around the world; using Purple Mash to design and create art work; and using Ipads to record their learning with photos and videos. The planned experiences and opportunities that the children encounter provided with them with firm foundations to build upon their knowledge and develop digital literacy for future learning.					
Year	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 1	<p>Rising Star - Switched on Online Safety Unit 1.5 We are good Digital Citizens.</p> <p>I know to tell an adult if I see anything worrying online</p> <p>(e-Safety)</p> <p>I can recognise how I use technology in my home and at school</p> <p>(Computers)</p> <p>I can use a program to create a simple document.</p> <p>(Using Computers)</p>		<p>Rising Stars - We are Treasure Hunters 1.1</p> <p>I can recognise how I use technology in my home and at school</p> <p>(Computers)</p> <p>I can predict the behaviour of a programmed toy</p> <p>(Coding)</p> <p>I can explain that an algorithm is a step by step set of instructions</p> <p>(Coding)</p>		<p>Rising Stars – We are Collectors 1.4</p> <p>I can recognise how I use technology in my home and at school</p> <p>(Computers)</p> <p>I can use a program to create a simple document.</p> <p>(Using Computers)</p>	



Year 2	<p>Rising Star - Switched on Online Safety Unit 2.5 We are Online Behaviour experts</p> <p>I know I need to keep my personal information private (e-Safety)</p> <p>I can recognise how others use technology outside of school (Computers)</p>		<p>Rising Stars - We are Photographers 2.3</p> <p>I can use different software programs and discuss the benefits of their usage (Using Computers)</p> <p>I can find, open, edit and save files I am working on (Using Computers)</p>		<p>Rising Stars – We are Games Testers 2.2</p> <p>I can predict the behaviour of a programmed toy, clearly relating each action to part of an algorithm (Coding)</p> <p>I can create a simple program to perform a task (Coding)</p> <p>I can create and debug simple programs (Coding)</p> <p>I can find and fix simple bugs in programs (Coding)</p> <p>I can understand that programs run by following clear instructions (Coding)</p>	
Year 3	<p>Rising Star - Switched on Online Safety Unit 3.5 We are Netiquette Experts.</p>		<p>Rising Stars - We are Communicators 3.5</p>		<p>Rising Stars - We are Vloggers 3.4</p> <p>I can use a search engine to find web pages (Net Searching)</p>	



	<p>I know I need to keep my password and personal information secure (e-Safety)</p> <p>I can recognise acceptable and unacceptable behaviour online (e-Safety)</p> <p>I can make choices on which program is best for a given task (Using Computers)</p>		<p>I understand that computer networks allow data to be transferred and shared (Networks)</p> <p>I understand that the internet is a large network that enables computers to share information (Networks)</p> <p>I can explain how simple algorithms solve a given problem (Coding)</p> <p>I can produce a simple program that completes a given task (Coding)</p>		<p>I understand that not all websites are as reliable as others (Net Searching)</p> <p>I know what input and output devices are and how they are used (Computers)</p> <p>I can use a range of input and output devices efficiently (Computers)</p>	
Year 4	<p>Rising Star - Switched on Online Safety Unit 4.3 We are Aware that our Online Content Last Forever.</p> <p>I understand that what I say or post on the internet might be copied, shared and stored by others (e-Safety)</p>		<p>Rising Stars - We are Toy Designers 4.2</p> <p>I can use other programs as I code (Coding)</p> <p>I can break programs up into smaller parts (Coding)</p>		<p>Rising Stars - We are HTML Editors 4.4</p> <p>I can use a range of programs to complete a task (Using Computers)</p>	



	<p>I know what to do if I see anything worrying online (e-Safety)</p> <p>I understand how search engines order their search results (Net Searching)</p>		<p>I can use logical thinking to identify and solve potential bugs during coding (Coding)</p> <p>I can use more complicated input devices (Computers)</p>		<p>I can use different software programs and different types of hardware (Using Computers)</p> <p>I understand that some computers on a network serve particular functions, such as controlling printers or sharing files (Networks)</p>	
Year 5	<p>Rising Star - Switched on Online Safety Unit 5.2 We are Responsible for our Online Actions.</p> <p>I understand how to choose online content for my age group (e-Safety)</p> <p>I can select appropriate software to use for a given task (Using Computers)</p>		<p>Rising Stars - We are Game Developers 5.1</p> <p>I can write increasingly complex programs (Coding)</p> <p>I can control external hardware from within my programs (Coding)</p> <p>I can use loops to repeat tasks within a program (Coding)</p>		<p>Rising Stars - We are Bloggers</p> <p>I can use the internet to allow me to share data with another person (Networks)</p> <p>I can select appropriate software to use for a given task (Using Computers)</p> <p>I can confidently use a range of software tools (Using Computers)</p>	



			<p>I can use IF statements to alter the way my programs run</p> <p>(Coding)</p> <p>I can explain how increasingly complex algorithms solve a given problem</p> <p>(Coding)</p>		<p>I can use more advanced features when searching online</p> <p>(Net Searching)</p> <p>I can use a range of search tools to find exactly what I'm looking for</p> <p>(Net Searching)</p>	
Year 6	<p>Rising Star - Switched on Online Safety Unit 6.3 We are Safe Social Networkers</p> <p>I understand how to protect my computer or device from harm on the internet</p> <p>(e-Safety)</p> <p>I understand how to report concerns about content and contact in and out of school</p> <p>(e-Safety)</p>		<p>Rising Stars - We are Travel Writers 6.5</p> <p>I can use software to help me analyse and present data and information</p> <p>(Using Computers)</p> <p>I can design a program for a given audience</p> <p>(Using Computers)</p> <p>I can use more than one piece of software to complete a task</p> <p>(Using Computers)</p> <p>I understand how computers are able to</p>		<p>Rising Stars - We are Computational Thinkers 6.2</p> <p>I can use logical thinking to identify and solve potential bugs during coding</p> <p>(Coding)</p> <p>I can use loops, variables and IF statements to alter the way my programs run</p> <p>(Coding)</p> <p>I can store and retrieve variables in a program</p> <p>(Coding)</p>	



	<p>I can recognise trustworthy sources of information on the internet</p> <p>(Net Searching)</p> <p>I can use a broad range of resources online to find exactly what I'm looking for</p> <p>(Net Searching)</p>		<p>communicate and share information</p> <p>(Networks)</p> <p>I can use and combine services on the internet to share information</p> <p>(Networks)</p>		<p>I can break code up into related instructions, making debugging easier and quicker (Coding)</p> <p>I can combine software and hardware to solve real life problems (Coding)</p>	
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