



Roots to Grow and  
Wings to Fly

# COMPUTING - Curriculum Overview

## Primary Computing: End of year expectations (Year 1)



	e-Safety	Programming	Handling Data	Multimedia	Technology in our Lives
Year 1	<ul style="list-style-type: none"><li>• I can keep my password private.</li><li>• I can tell you what personal information is.</li><li>• I can tell an adult when I see something unexpected or worrying online.</li><li>• I can talk about why it's important to be kind and polite.</li><li>• I can recognise an age appropriate website.</li><li>• I can agree and follow sensible e-Safety rules.</li></ul>	<ul style="list-style-type: none"><li>• I can give instructions to my friend and follow their instructions to move around.</li><li>• I can describe what happens when I press buttons on a robot.</li><li>• I can press the buttons in the correct order to make my robot do what I want.</li><li>• I can describe what actions I will need to do to make something happen and begin to use the word algorithm.</li><li>• I can begin to predict what will happen for a short sequence of instructions.</li><li>• I can begin to use software/apps to create movement and patterns on a screen.</li><li>• I can use the word debug when I correct mistakes when I program.</li></ul>	<ul style="list-style-type: none"><li>• I can talk about the different ways in which information can be shown.</li><li>• I can use technology to collect information, including photos, video and sound.</li><li>• I can sort different kinds of information and present it to others.</li><li>• I can add information to a pictograph and talk to you about what I have found out.</li></ul>	<ul style="list-style-type: none"><li>• I can be creative with different technology tools.</li><li>• I can use technology to create and present my ideas.</li><li>• I can use the keyboard or a word bank on my device to enter text.</li><li>• I can save information in a special place and retrieve it again.</li></ul>	<ul style="list-style-type: none"><li>• I can recognise the ways we use technology in our classroom.</li><li>• I can recognise ways that technology is used in my home and community.</li><li>• I can use links to websites to find information.</li><li>• I can begin to identify some of the benefits of using technology.</li></ul>

## Primary Computing: End of year expectations (Year 2)

	e-Safety	Programming	Handling Data	Multimedia	Technology in our Lives
<b>Year 2</b>	<ul style="list-style-type: none"> <li>• I can explain why I need to keep my password and personal information private.</li> <li>• I can describe the things that happen online that I must tell an adult about.</li> <li>• I can talk about why I should go online for a short amount of time.</li> <li>• I can talk about why it is important to be kind and polite online and in real life.</li> <li>• I know that not everyone is who they say they are on the Internet.</li> </ul>	<ul style="list-style-type: none"> <li>• I can give instructions to my friend (using forward, backward and turn) and physically follow their instructions.</li> <li>• I can tell you the order I need to do things to make something happen and talk about this as an algorithm.</li> <li>• I can program a robot or software to do a particular task.</li> <li>• I can look at my friend's program and tell you what will happen.</li> <li>• I can use programming software to make objects move.</li> <li>• I can watch a program execute and spot where it goes wrong so that I can debug it.</li> </ul>	<ul style="list-style-type: none"> <li>• I talk about the different ways I use technology to collect information, including a camera, microscope or sound recorder.</li> <li>• I can make and save a chart or graph using the data I collect.</li> <li>• I can talk about the data that is shown in my chart or graph.</li> <li>• I am starting to understand a branching database.</li> <li>• I can tell you what kind of information I could use to help me investigate a question.</li> </ul>	<ul style="list-style-type: none"> <li>• I can use technology to organise and present my ideas in different ways.</li> <li>• I can use the keyboard on my device to add, delete and space text for others to read.</li> <li>• I can tell you about an online tool that will help me to share my ideas with other people.</li> <li>• I can save and open files on the device I use.</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• I can tell you why I use technology in the classroom.</li> <li>• I can tell you why I use technology in my home and community.</li> <li>• I am starting to understand that other people have created the information I use.</li> <li>• I can identify benefits of using technology including finding information, creating and communicating.</li> <li>• I can talk about the differences between the Internet and things in the physical world.</li> </ul>

## Primary Computing: End of year expectations (Year 3)

	e-Safety	Programming	Handling Data	Multimedia	Technology in our Lives
<b>Year 3</b>	<ul style="list-style-type: none"> <li>• I can talk about what makes a secure password and why they are important.</li> <li>• I can protect my personal information when I do different things online.</li> <li>• I can use the safety features of websites as well as reporting concerns to an adult.</li> <li>• I can recognise websites and games appropriate for my age.</li> <li>• I can make good choices about how long I spend online.</li> <li>• I ask an adult before downloading files and games from the Internet.</li> <li>• I can post positive comments online.</li> </ul>	<ul style="list-style-type: none"> <li>• I can break an open-ended problem up into smaller parts.</li> <li>• I can put programming commands into a sequence to achieve a specific outcome.</li> <li>• I keep testing my program and can recognise when I need to debug it.</li> <li>• I can use repeat commands.</li> <li>• I can describe the algorithm I will need for a simple task.</li> <li>• I can detect a problem in an algorithm which could result in unsuccessful programming.</li> </ul>	<ul style="list-style-type: none"> <li>• I can talk about the different ways data can be organised.</li> <li>• I can search a ready-made database to answer questions.</li> <li>• I can collect data help me answer a question.</li> <li>• I can add to a database.</li> <li>• I can make a branching database.</li> <li>• I can use a data logger to monitor changes and can talk about the information collected.</li> </ul>	<ul style="list-style-type: none"> <li>• I can create different effects with different technology tools.</li> <li>• I can combine a mixture of text, graphics and sound to share my ideas and learning.</li> <li>• I can use appropriate keyboard commands to amend text on my device, including making use of a spellchecker.</li> <li>• I can evaluate my work and improve its effectiveness.</li> <li>• I can use an appropriate tool to share my work online.</li> </ul>	<ul style="list-style-type: none"> <li>• I can save and retrieve work on the Internet, the school network or my own device.</li> <li>• I can talk about the parts of a computer.</li> <li>• I can tell you ways to communicate with others online.</li> <li>• I can describe the World Wide Web as the part of the Internet that contains websites.</li> <li>• I can use search tools to find and use an appropriate website.</li> <li>• I think about whether I can use images that I find online in my own work.</li> </ul>



## Primary Computing: End of year expectations (Year 4)

	e-Safety	Programming	Handling Data	Multimedia	Technology in our Lives
<b>Year 4</b>	<ul style="list-style-type: none"> <li>• I choose a secure password and appropriate screen name when I am using a website.</li> <li>• I can talk about the ways I can protect myself and my friends from harm online.</li> <li>• I use the safety features of websites as well as reporting concerns to an adult.</li> <li>• I know that anything I share online can be seen by others.</li> <li>• I choose websites, apps and games that are appropriate for my age.</li> <li>• I can help my friends make good choices about the time they spend online.</li> <li>• I can talk about why I need to ask a trusted adult before downloading files and games from the Internet.</li> <li>• I comment positively and respectfully online and through text messages.</li> </ul>	<ul style="list-style-type: none"> <li>• I can use logical thinking to solve an open-ended problem by breaking it up into smaller parts.</li> <li>• I can use an efficient procedure to simplify a program.</li> <li>• I can use a sensor to detect a change which can select an action within my program.</li> <li>• I know that I need to keep testing my program while I am putting it together.</li> <li>• I can use a variety of tools to create a program.</li> <li>• I can recognise an error in a program and debug it.</li> <li>• I recognise that an algorithm will help me to sequence more complex programs.</li> <li>• I recognise that using algorithms will also help solve problems in other learning such as Maths, Science and Design and Technology.</li> </ul>	<ul style="list-style-type: none"> <li>• I can organise data in different ways.</li> <li>• I can collect data and identify where it could be inaccurate.</li> <li>• I can plan, create and search a database to answer questions.</li> <li>• I can choose the best way to present data to my friends.</li> <li>• I can use a data logger to record and share my readings with my friends.</li> </ul>	<ul style="list-style-type: none"> <li>• I can use photos, video and sound to create an atmosphere when presenting to different audiences.</li> <li>• I am confident to explore new media to extend what I can achieve.</li> <li>• I can change the appearance of text to increase its effectiveness.</li> <li>• I can create, modify and present documents for a particular purpose.</li> <li>• I can use a keyboard confidently and make use of a spellchecker to write and review my work.</li> <li>• I can use an appropriate tool to share my work and collaborate online.</li> <li>• I can give constructive feedback to my friends to help them improve their work and refine my own work.</li> </ul>	<ul style="list-style-type: none"> <li>• I can tell you whether a resource I am using is on the Internet, the school network or my own device.</li> <li>• I can identify key words to use when searching safely on the World Wide Web.</li> <li>• I think about the reliability of information I read on the World Wide Web.</li> <li>• I can tell you how to check who owns photos, text and clipart.</li> <li>• I can create a hyperlink to a resource on the World Wide Web.</li> <li>• I can recognise that websites use different methods to advertise products.</li> </ul>