

# Computing Progression Map



	Year 3	Year 4	Year 5	Year 6
Vocabulary				
Computer Science	<ul style="list-style-type: none"> <li>• Make things happen in a sequence, creating simple animations and simulations.</li> <li>• Code with 'if statements', which select different pieces of code to execute depending on what happens to other objects.</li> <li>• Keep testing my program and can recognise when I need to debug it.</li> <li>• Describe the algorithm I will need for a simple task.</li> <li>• Save and retrieve work on the internet, the school network or my own device.</li> <li>• Talk about the parts of a computer.</li> </ul>	<ul style="list-style-type: none"> <li>• Know computers use variables to count things and keep track of what is going on and I create simple games which use a score variable.</li> <li>• Know how to use repetition and loops to do things over and over again.</li> <li>• Tell whether a resource I am using is on the internet, the school network or my own device.</li> <li>• Identify key words to use when searching safely on the World Wide Web.</li> <li>• Think about the reliability of information I read on the World Wide Web.</li> </ul>	<ul style="list-style-type: none"> <li>• Know computers use numbers to represent things such as how fast things are moving, and where they are.</li> <li>• Know computers can generate random numbers and I know how these can be used in simulations.</li> <li>• Describe different parts of the internet.</li> <li>• Use a search engine to find appropriate information and check its reliability.</li> <li>• Recognise and evaluate different types of information I find on the World Wide Web.</li> <li>• Describe the different parts of a webpage.</li> </ul>	<ul style="list-style-type: none"> <li>• Use variables in more complex ways and manipulate inputs to create useful outputs.</li> <li>• Know more about how computers use property values and parameters to store information about objects.</li> <li>• Recognise the internet services I need to use for different purposes.</li> <li>• Describe how information is transported on the internet.</li> <li>• Talk about the way search results are selected and ranked.</li> <li>• Check the reliability of a website.</li> <li>• Demonstrate knowledge of copyright and acknowledge</li> </ul>



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	<ul style="list-style-type: none"> <li>• Tell you ways to communicate with others online.</li> <li>• Describe the World Wide Web as the part of the internet that contains websites.</li> <li>• Use search tools to find and use an appropriate website.</li> </ul>	<ul style="list-style-type: none"> <li>• Tell how to check who owns photos, text and clipart.</li> <li>• Create a hyperlink to a source on the World Wide Web.</li> </ul>		<p>the sources of information that I find online.</p>
<p><b>Digital Literacy including e-safety</b></p>	<ul style="list-style-type: none"> <li>• Talk about what makes a secure password and why they are important. Understand when to share personal information and when not to</li> <li>• Be aware that some people lie about who they are online</li> <li>• Use the safety features of websites as well as reporting concerns to an adult.</li> <li>• Recognise websites and games appropriate for my age.</li> <li>• Make good choices about how long I spend online.</li> </ul>	<ul style="list-style-type: none"> <li>• Choose a secure password when I am using a website.</li> <li>• Talk about the ways I can protect myself and my friends from harm online.</li> <li>• Use the safety features of websites as well as reporting concerns to an adult.</li> <li>• Know that anything I post online can be seen by others.</li> <li>• Choose websites and games that are appropriate for my age.</li> </ul>	<ul style="list-style-type: none"> <li>• Recognise the need to protect my password and other personal information.</li> <li>• Explain why I need to protect myself and my friends and the best ways to do this, including reporting concerns to an adult.</li> <li>• Know that anything I post online can be seen, used and may affect others.</li> <li>• Talk about the dangers of spending too long online or playing a game.</li> </ul>	<ul style="list-style-type: none"> <li>• Protect my password and other personal information.</li> <li>• Explain the consequences of sharing too much information about myself online.</li> <li>• Support my friends to protect themselves and make good choices online, including reporting concerns to an adult.</li> <li>• Explain the consequences of spending too much time online or on a game.</li> <li>• Explain the consequences to myself and others of not communicating kindly and respectfully.</li> </ul>



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	<ul style="list-style-type: none"> <li>Recognise the need to ask an adult before downloading files and games from the internet.</li> <li>Recognise ways to communicate with others online.</li> </ul>	<ul style="list-style-type: none"> <li>Help my friends make good choices about the time they spend online.</li> <li>Talk about why I need to ask a trusted adult before downloading files and games from the internet.</li> <li>Comment positively and respectfully online</li> </ul>	<ul style="list-style-type: none"> <li>Explain the importance of communicating kindly and respectfully.</li> <li>Discuss the importance of choosing an age-appropriate website or game.</li> <li>Explain why I need to protect my computer or device from harm.</li> <li>Use different online communication tools</li> </ul>	<ul style="list-style-type: none"> <li>Protect my computer or device from harm on the internet.</li> <li>Know that algorithms are used to track online activities with a view to targeting advertising and information</li> <li>Use different tools to collaborate and communicate online</li> </ul>
<b>Information Technology</b>	<ul style="list-style-type: none"> <li>Talk about the different ways data can be organised.</li> <li>Search a ready-made database to answer questions.</li> <li>Collect data to help me answer a question.</li> <li>Add information to a database.</li> <li>Use a data logger to monitor changes and can talk about the information collected.</li> <li>Combine a mixture of text, graphics and sound to</li> </ul>	<ul style="list-style-type: none"> <li>Organise data in different ways.</li> <li>Collect data and identify where it could be inaccurate.</li> <li>Plan, create and search a database to answer questions.</li> <li>Choose the best way to present data to my friends.</li> <li>Use a data logger to record and share my readings.</li> <li>Use photos, video and sound to present to different audiences.</li> </ul>	<ul style="list-style-type: none"> <li>Use a spreadsheet and database to collect and record data.</li> <li>Choose an appropriate tool to help me collect data.</li> <li>Present data in an appropriate way.</li> <li>Search a database using different operators to refine my search.</li> <li>Talk about mistakes in data and suggest how it could be checked</li> <li>Use text, photo, sound to refine my work.</li> <li>Use the skills I have already developed to create</li> </ul>	<ul style="list-style-type: none"> <li>Plan the process needed to investigate the world around me.</li> <li>Select the most effective tool to collect data for my investigation.</li> <li>Check the data I collect for accuracy and plausibility.</li> <li>Interpret the data I collect.</li> <li>Present the data I collect in an appropriate way.</li> <li>Use the skills I have developed to interrogate a database.</li> <li>Talk about audience, atmosphere and structure</li> </ul>



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	<p>share my ideas and learning.</p> <ul style="list-style-type: none"><li>• Use appropriate keyboard commands to amend text on my device, including making use of a spellchecker.</li><li>• Evaluate my work and improve its effectiveness.</li></ul>	<ul style="list-style-type: none"><li>• Use photographs to create short pieces of animation</li><li>• Change the appearance of text to increase its effectiveness.</li><li>• Create, modify and present documents for a particular purpose.</li><li>• Use a keyboard confidently and make use of a spellchecker to write and review my work.</li></ul>	<p>content using unfamiliar technology.</p> <ul style="list-style-type: none"><li>• Select, use and combine the appropriate technology tools to create effects that will have an impact on others.</li></ul>	<p>when planning a particular outcome.</p> <ul style="list-style-type: none"><li>• Use a range of tools to enhance my animations</li><li>• Confidently identify the potential of unfamiliar technology to increase my creativity.</li><li>• Combine a range of media, recognising the contribution of each to achieve a particular outcome.</li></ul>
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