

Sandhurst Primary Skills Progression for Computing (Years 1-6)

ONLINE SAFETY					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>I can keep my password private.</p> <p>I can tell you what personal information is.</p> <p>I can tell an adult when I see something unexpected or worrying online.</p> <p>I can talk about why it's important to be kind and polite.</p> <p>I can recognise an age appropriate website.</p> <p>I can agree and follow sensible e-safety rules.</p>	<p>I can explain why I need to keep my password and personal information private.</p> <p>I can describe the things that happen online that I must tell an adult about.</p> <p>I can talk about why I should go online for a short amount of time.</p> <p>I can talk about why it is important to be kind and polite online and in real life. I know that not everyone is who they say they are on the internet.</p>	<p>I can talk about what makes a secure password and why they are important.</p> <p>I can protect my personal information when I do different things online.</p> <p>I can use the safety features of websites as well as reporting concerns to an adult.</p> <p>I can recognise websites and games appropriate for my age.</p> <p>I can make good choices about how long I spend online. I ask an adult before downloading files and games from the internet.</p> <p>I can post positive comments online.</p>	<p>I can choose a secure password when I am using a website. I can talk about the ways I can protect myself and my friends from harm online. I can use the safety features of websites as well as reporting concerns to an adult.</p> <p>I know that anything I post online can be seen by others.</p> <p>I choose websites and games that are appropriate for my age. I can help my friends make good choices about the time they spend online.</p> <p>I can talk about why I need to ask a trusted adult before downloading files and games from the internet. I comment positively and respectfully online</p>	<p>I protect my password and other personal information.</p> <p>I can explain why I need to protect myself and my friends and the best ways to do this, including reporting concerns to an adult. I know that anything I post online can be seen, used and may affect others. I can talk about the dangers of spending too long online or playing a game.</p> <p>I can explain the importance of communicating kindly and respectfully.</p> <p>I can discuss the importance of choosing an age-appropriate website or game.</p> <p>I can explain why I need to protect my computer or device from harm.</p> <p>I know which resources on the internet I can download and use</p>	<p>I protect my password and other personal information.</p> <p>I can explain the consequences of sharing too much information about myself online.</p> <p>I support my friends to protect themselves and make good choices online, including reporting concerns to an adult.</p> <p>I can explain the consequences of spending too much time online or on a game.</p> <p>I can explain the consequences to myself and others of not communicating kindly and respectfully.</p> <p>I protect my computer or device from harm on the internet.</p>

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PROGRAMMING (CODING)					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>I can give instructions to my friend and follow their instructions to move around.</p> <p>I can describe what happens when I give instructions a robot.</p> <p>I can press the buttons in the correct order to make my robot do what I want. I can describe what actions I will need to do to make something happen and begin to use the word 'algorithm'.</p> <p>I can begin to predict what will happen for a short sequence of instructions. I can begin to use software/apps to create movement and patterns on a screen. I can use the word 'debug' when I correct mistakes when I Program.</p>	<p>I can give instructions to my friend (using forward, backward and turn) and physically follow their instructions. I can tell you the order I need to do things to make something happen and talk about this as an algorithm.</p> <p>I can program a robot or software to do a particular task.</p> <p>I can look at my friend's program and tell you what will happen.</p> <p>I can use programming software to make objects move.</p> <p>I can watch a program execute and spot where it goes wrong so that I can debug it.</p>	<p>I can break an open-ended problem up into smaller parts. I can put programming commands into a sequence to achieve a specific outcome.</p> <p>I keep testing my program and can recognise when I need to debug it.</p> <p>I can use repeat commands. I can describe the algorithm I will need for a simple task. I can detect a problem in an algorithm which could result in</p>	<p>I can use logical thinking to solve an open-ended problem by breaking it up into smaller parts. I can use an efficient procedure to simplify a program. I can use a sensor to detect a change which can select an action within my program.</p> <p>I know that I need to keep testing my program while I am putting it together.</p> <p>I can use a variety of tools to create a program. I can recognise an error in a program and debug it. I can recognise that an algorithm will help me sequence more complex programs.</p> <p>I recognise that using algorithms will also help solve problems in other learning such as maths, science and design technology.</p>	<p>I can decompose a problem into smaller parts to design an algorithm for a specific outcome and use this to write a program.</p> <p>I can refine a procedure using repeat commands to improve a program.</p> <p>I can use a variable to increase programming possibilities.</p> <p>I can change an input to a program to achieve a different output.</p> <p>I can use 'if' and 'then' commands to select an action.</p> <p>I can talk about how a computer model can provide information about a physical system.</p> <p>I can use logical reasoning to detect and debug mistakes in a program.</p> <p>I use logical thinking, imagination and creativity to extend a program.</p>	<p>I can deconstruct a problem into smaller steps, recognising similarities to solutions used before.</p> <p>I can explain and program each of the steps in my algorithm.</p> <p>I can evaluate the effectiveness and efficiency of my algorithm while I continually test the programming of that algorithm.</p> <p>I can recognise when I need to use a variable to achieve a required output.</p> <p>I can use a variable and operators to stop a program.</p> <p>I can use different inputs (including sensors) to control a device or onscreen action and predict what will happen.</p> <p>I can use logical reasoning to detect and correct errors in algorithms and programs.</p>

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HANDLING DATA (SPREADSHEETS, DATABASES, FLOW CHARTS, CONCEPT MAPS)					
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<p>I can talk about the different ways in which information can be shown. I can use technology to collect information, including photos, video and sound. I can sort different kinds of information and present it to others. I can add information to a pictograph and talk to you about what I have found out.</p>	<p>I can talk about the different ways I use technology to collect information, including a camera, microscope or sound recorder. I can make and save a chart or graph using the data I collect. I can talk about the data that is shown in my chart or graph. I am starting to understand a branching database. I can tell you what kind of information I could use to help me investigate a question.</p>	<p>I can talk about the different ways data can be organised. I can search a ready-made database to answer questions. I can collect data to help me answer a question. I can add to a database. I can make a branching database. I can use a data logger to monitor changes and can talk about the information collected.</p>	<p>I can organise data in different ways. I can collect data and identify where it could be inaccurate. I can plan, create and search a database to answer questions. I can choose the best way to present data to my friends. I can use a data logger to record and share my readings with my friends.</p>	<p>I can use a spreadsheet and database to collect and record data. I can choose an appropriate tool to help me collect data. I can present data in an appropriate way. I can search a database using different operators to refine my search. I can talk about mistakes in data and suggest how it could be checked.</p>	<p>I can plan the process needed to investigate the world around me. I can select the most effective tool to collect data for my investigation. I can check the data I collect for accuracy and plausibility. I can interpret the data I collect. I can present the data I collect in an appropriate way. I use the skills I have developed to interrogate a database.</p>
MULTIMEDIA (WORD, POWER POINT)					
<p>I can be creative with different technology tools. I can use technology to create and present my ideas. I can use the keyboard or a word bank on my device to enter text. I can save information in a special place and retrieve it again</p>	<p>I can use technology to organise and present my ideas in different ways. I can use the keyboard on my device to add, delete and space text for others to read. I can tell you about an online tool that will help me to share my ideas with other people. I can save and open files on the device I use.</p>	<p>I can create different effects with different technology tools. I can combine a mixture of text, graphics and sound to share my ideas and learning. I can use appropriate keyboard commands to amend text on my device, including making use of a spellchecker. I can evaluate my work and improve its effectiveness. I can use an appropriate tool to share my work online.</p>	<p>I can use photos, video and sound to create an atmosphere when presenting to different audiences. I am confident to explore new media to extend what I can achieve. I can change the appearance of text to increase its effectiveness. I can create, modify and present documents for a particular purpose. I can use a keyboard confidently and make use of a spellchecker to write and review my work. I can use an appropriate tool to</p>	<p>I can use text, photo, sound and video editing tools to refine my work. I can use the skills I have already developed to create content using unfamiliar technology. I can select, use and combine the appropriate technology tools to create effects that will have an impact on others. I can select an appropriate online or offline tool to create and share ideas. I can review and improve my work and support others to improve their work.</p>	<p>I can talk about audience, atmosphere and structure when planning a particular outcome. I can confidently identify the potential of unfamiliar technology to increase my creativity. I can combine a range of media, recognising the contribution of each to achieve a particular outcome. I can tell you why I select a particular online tool for a specific purpose. I can be digitally discerning when evaluating the effectiveness of my work and</p>

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			share my work and collaborate online. I can give constructive feedback to my friends to help them improve their work and refine my own work.		the work of others.
TECHNOLOGY IN OUR LIVES					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
I can recognise the way we use technology in our classroom. I can recognise ways that technology is used in my home and community. I can use links to websites to find information. I can begin to identify some of the benefits of using technology	I can tell you why I use technology in the classroom. I can tell you why I use technology in my home and community. I am starting to understand that other people have created the information I use. I can identify benefits of using technology including finding information, creating and communicating. I can talk about the differences between the internet and things in the physical world.	I can save and retrieve work on the internet, the school network or my own device. I can talk about the parts of a computer. I can tell you ways to communicate with others online. I can describe the World Wide Web as the part of the internet that contains websites. I can use search tools to find and use an appropriate website. I can think about whether I can use images that I find online in my own work.	I can tell you whether a resource I am using is on the internet, the school network or my own device. I can identify key words to use when searching safely on the World Wide Web. I think about the reliability of information I read on the World Wide Web. I can tell you how to check who owns photos, text and clipart. I can create a hyperlink to are source on the World Wide Web.	I can describe different parts of the internet. I can use different online communication tools for different purposes. I can use a search engine to find appropriate information and check its reliability. I can recognise and evaluate different types of information I find on the World Wide Web. I can describe the different parts of a webpage. I can find out who the information on a webpage belongs to.	I can tell you the internet services I need to use for different purposes. I describe how information is transported on the internet. I can select an appropriate tool to communicate and collaborate online. I can talk about the way search results are selected and ranked. I can check the reliability of a website. I can tell you about copyright and acknowledge the sources of information that I find online.



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