

Aldersbrook Primary School Progression in Computing

Strand	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
E-safety	<p>I can play co-operatively, taking turns with others.</p> <p>I can show sensitivity to others' needs and feelings, and form positive relationships with adults and other children.</p> <p>I can say when I do or don't need help.</p> <p>I am confident to speak in a familiar group, will talk about their ideas, and will choose the resources they need for their chosen activities.</p>	<p>I can talk about why it's important to be kind and polite.</p> <p>I can tell an adult when I see something unexpected of worrying online.</p> <p>I can recognise an age appropriate website.</p> <p>I can keep my password and personal information private.</p> <p>I can tell you what personal information is.</p> <p>I can agree and follow sensible e-safety rules.</p>	<p>I can talk about why it is important to be kind and polite online and in real life.</p> <p>I can describe the things that happen online that I must tell an adult about.</p> <p>I know that not everyone is who they say they are on the Internet.</p> <p>I can explain why I need to keep my password and personal information private.</p> <p>I can talk about why I should go online for a short amount of time.</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 a 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.</p> <p>I can 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.</p> <p>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.</p> <p>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 from the Internet.</p> <p>I can 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.</p> <p>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 I</p>

Programming	<p>I select and use technology for particular purposes.</p>	<p>I can give instructions to my friend and follow their instructions to move around.</p> <p>I can describe what happens when I press buttons on a robot.</p> <p>I can press the buttons in the correct order to make my robot do what I want.</p> <p>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.</p> <p>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.</p> <p>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. 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.</p> <p>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.</p> <p>I can describe the algorithm I will need for a simple task.</p> <p>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.</p> <p>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.</p> <p>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>
Handling Data	<p>I take account of one another's ideas about how to organise my activity.</p>	<p>I can talk about the different ways in which information can be shown.</p> <p>I can use technology to collect information, including photos, video and sound.</p> <p>I can sort different kinds of information and present it to others.</p> <p>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.</p> <p>I can make and save a chart or graph using the data I collect.</p> <p>I can talk about the data that is shown in my chart or graph.</p> <p>I am starting to understand a branching database.</p> <p>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.</p> <p>I can search a ready-made database to answer questions.</p> <p>I can collect data to help me answer a question.</p> <p>I can add to a database.</p> <p>I can make a branching database.</p> <p>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.</p> <p>I can collect data and identify where it could be inaccurate.</p> <p>I can plan, create and search a database to answer questions.</p> <p>I can choose the best way to present data to my friends.</p> <p>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.</p> <p>I can choose an appropriate tool to help me collect data.</p> <p>I can present data in an appropriate way.</p> <p>I can search a database using different operators to refine my search.</p> <p>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.</p> <p>I can select the most effective tool to collect data for my investigation.</p> <p>I can check the data I collect for accuracy and plausibility.</p> <p>I can interpret the data I collect.</p> <p>I can present the data I collect in an appropriate way.</p> <p>I use the skills I have developed to interrogate a database.</p>

Multimedia	<p>I am confident to try new activities, and say why I like some activities more than others.</p>	<p>I can be creative with different technology tools.</p> <p>I can use technology to create and present my ideas.</p> <p>I can use the keyboard or a word bank on my device to enter text.</p> <p>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.</p> <p>I can use the keyboard on my device to add, delete and space text for others to read.</p> <p>I can tell you about an online tool that will help me to share my ideas with other people.</p> <p>I can save and open files on the device I use.</p>	<p>I can create different effects with different technology tools.</p> <p>I can combine a mixture of text, graphics and sound to share my ideas and learning.</p> <p>I can use appropriate keyboard commands to amend text on my device, including making use of a spellchecker.</p> <p>I can evaluate my work and improve its effectiveness.</p> <p>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.</p> <p>I am confident to explore new media to extend what I can achieve. I can change the appearance of text to increase its effectiveness.</p> <p>I can create, modify and present documents for a particular purpose.</p> <p>I can use a keyboard confidently and make use of a spellchecker to write and review my work.</p> <p>I can use an appropriate tool to share my work and collaborate online.</p> <p>I can give constructive feedback to my friends to help them improve their work and refine my own work.</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.</p> <p>I can select, use and combine the appropriate technology tools to create effects that will have an impact on others.</p> <p>I can select an appropriate online or offline tool to create and share ideas.</p> <p>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.</p> <p>I can confidently identify the potential of unfamiliar technology to increase my creativity.</p> <p>I can combine a range of media, recognising the contribution of each to achieve a particular outcome.</p> <p>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 the work of others.</p>
Technology in our Lives	<p>I recognise that a range of technology is used in places such as homes and schools. I select and use technology for particular purposes.</p>	<p>I can recognise the way we use technology in our classroom.</p> <p>I can recognise ways that technology is used in my home and community.</p> <p>I can use links to websites to find information.</p> <p>I can begin to identify some of the benefits of using technology</p>	<p>I can tell you why I use technology in the classroom.</p> <p>I can tell you why I use technology in my home and community.</p> <p>I am starting to understand that other people have created the information I use.</p> <p>I can identify benefits of using technology including finding information, creating and communicating.</p> <p>I can talk about the differences between the internet and things in the physical world.</p>	<p>I can save and retrieve work on the internet, the school network or my own device.</p> <p>I can talk about the parts of a computer.</p> <p>I can tell you ways to communicate with others online.</p> <p>I can describe the World Wide Web as the part of the internet that contains websites.</p> <p>I can use search tools to find and use an appropriate website.</p> <p>I can think about whether I can use images that I find online in my own work.</p>	<p>I can tell you whether a resource I am using is on the internet, the school network or my own device.</p> <p>I can identify key words to use when searching safely on the World Wide Web.</p> <p>I think about the reliability of information I read on the World Wide Web.</p> <p>I can tell you how to check who owns photos, text and clipart.</p> <p>I can create a hyperlink to are source on the World Wide Web.</p>	<p>I can describe different parts of the internet.</p> <p>I can use different online communication tools for different purposes.</p> <p>I can use a search engine to find appropriate information and check its reliability.</p> <p>I can recognise and evaluate different types of information I find on the World Wide Web.</p> <p>I can describe the different parts of a webpage.</p> <p>I can find out who the information on a webpage belongs to.</p>	<p>I can tell you the internet services I need to use for different purposes.</p> <p>I describe how information is transported on the internet.</p> <p>I can select an appropriate tool to communicate and collaborate online.</p> <p>I can talk about the way search results are selected and ranked.</p> <p>I can check the reliability of a website.</p> <p>I can tell you about copyright and acknowledge the sources of information that I find online.</p>

