

## Assessment in Computing Skills and Knowledge

A Year 1 computer user	A safe computer user in Y1/2	A Year 2 computer user
Algorithms and programming <ul> <li>I create a series of instructions.</li> <li>I plan a journey for a programmable toy.</li> </ul> Information technology <ul> <li>I create digital content.</li> <li>I store digital content.</li> <li>I retrieve digital content.</li> <li>I use a website.</li> <li>I use a camera.</li> <li>I record sound and play back.</li> </ul> Digital literacy <ul> <li>I use technology safely.</li> <li>I keep personal information private.</li> </ul>	<ul> <li>Knowledge and understanding</li> <li>I understand the different methods of communication (e.g. email, online forums etc).</li> <li>I know you should only open a message from a known source.</li> <li>I know that websites sometimes include pop-ups that take me away from the main site.</li> <li>I know that bookmarking is a way to find safe sites again quickly.</li> <li>I have begun to evaluate websites and know that everything on the internet is not true.</li> <li>I know that it is not always possible to copy some text and pictures from the internet.</li> <li>I know that personal information should not be shared online.</li> <li>I know I must tell a trusted adult immediately if anyone tries to meet me via the internet.</li> <li>I so the search engines agreed by the school.</li> <li>I know what to do if I find something inappropriate online or something I am unsure of (including identifying people who can help; minimising screen; online reporting using school system etc.).</li> <li>I use the internet for learning, making choices when navigating through sites.</li> <li>I use a password to access the secure network.</li> </ul>	<ul> <li>Algorithms and programming <ul> <li>I use a range of instructions (e.g. direction, angles, turns).</li> <li>I test and amend a set of instructions.</li> <li>I find errors and amend. (debug)</li> <li>I write a simple program and test it.</li> <li>I predict what the outcome of a simple program will be (logical reasoning).</li> <li>I understand that algorithms are used on digital devices.</li> <li>I understand that programs require precise instructions.</li> </ul> </li> <li>Information technology <ul> <li>I organise digital content.</li> <li>I retrieve and manipulate digital content.</li> <li>I can navigate the web to complete simple searches.</li> </ul> </li> <li>Digital literacy <ul> <li>I use technology respectfully.</li> <li>I know where to go for help if I am concerned.</li> <li>I know how technology is used in school and outside of school.</li> </ul> </li> </ul>

<ul> <li>I design a sequence of instructions, including directional instructions.</li> <li>I write programs that accomplish specific goals.</li> <li>I work with various forms of input.</li> <li>I work with various forms of output.</li> <li>I understand that the internet contains fact, fiction and opinion and begin to distinguish between them.</li> <li>I use a range of software for similar purposes.</li> <li>I collect information.</li> <li>I design and create content.</li> <li>I present information on the web in different ways.</li> <li>I understand that if I make personal information and passwords private.</li> <li>I know how to respond in faxed for personal information or feel unsafe about content of a message.</li> <li>I know how to report an incident of cyber bullying.</li> <li>I know the difference between online communication tools used in school and those used at home.</li> </ul>	A Year 3 computer User	A safe computer user in Y3/4	A Year 4 computer user
<ul> <li>including directional instructions.</li> <li>I work with various forms of input.</li> <li>I work with various forms of output.</li> <li>Information technology</li> <li>I use a range of software for similar purposes.</li> <li>I collect information.</li> <li>I design and create content.</li> <li>I present information on the web in different ways.</li> <li>I use technology respectfully and responsibly.</li> <li>I understand that the outcome of internet searches at home and how they provide multiple services.</li> <li>I know the difference between online communication tools used at home.</li> <li>I understand that the need to develop an alias for some public online use.</li> <li>I follow the school's safer internet rules.</li> <li>I follow the sch</li></ul>	Algorithms and programming	Knowledge and understanding	Algorithms and programming
	<ul> <li>including directional instructions.</li> <li>I write programs that accomplish specific goals.</li> <li>I work with various forms of input.</li> <li>I work with various forms of output.</li> </ul> Information technology <ul> <li>I use a range of software for similar purposes.</li> <li>I collect information.</li> <li>I design and create content.</li> <li>I present information.</li> <li>I search for information on the web in different ways.</li> </ul> Digital literacy <ul> <li>I use technology respectfully and responsibly.</li> <li>I know different ways I can get help if I am concerned.</li> <li>I understand what computer networks do and how they provide multiple services.</li> <li>I discern where it is best to use technology and where it adds little or no</li> </ul>	<ul> <li>exchanging learning and ideas online.</li> <li>I recognise that information on the internet may not be accurate or reliable and may be used for bias, manipulation or persuasion.</li> <li>I understand that the internet contains fact, fiction and opinion and begin to distinguish between them.</li> <li>I use strategies to verify information, e.g. cross-checking.</li> <li>I understand the need for caution when using an internet search for images and what to do if I find an unsuitable image.</li> <li>I understand that copyright exists on most digital images, video and recorded music.</li> <li>I understand that event to keep personal information and passwords private.</li> <li>I understand that if I make personal information available online it may be seen and used by others.</li> <li>I know how to respond if asked for personal information or feel unsafe about content of a message.</li> <li>I recognise that cyber bullying is unacceptable and will be sanctioned in line with the school's policy.</li> <li>I know the difference between online communication tools used in school and those used at home.</li> <li>I understand the need to develop an alias for some public online use.</li> <li>I understand that the outcome of internet searches at home may be different than at school.</li> </ul>	<ul> <li>I give an on-screen robot specific instructions that takes them from A to B.</li> <li>I make an accurate prediction and explain why I believe something will happen (linked to programming).</li> <li>I de-bug a program.</li> <li>I can tinker.</li> </ul> Information technology <ul> <li>I select and use software to accomplish given goals.</li> <li>I collect and present data.</li> <li>I manipulate and improve digital images.</li> </ul> Digital literacy <ul> <li>I recognise acceptable and unacceptable</li> </ul>

A Year 5 computer User	A safe computer user in Y5/6	A Year 6 computer User
A Year 5 computer User Algorithms and programming • I combine sequences of instructions and procedures to turn devices on and off. • I use technology to control an external device. • I design algorithms that use repetition & 2-way selection. Information technology • I analyse information. • I evaluate information. • I understand how search results are selected and ranked. Digital literacy • I understand that you have to make choices when using technology and that not everything is true and/or safe	A safe computer user in Y5/6           Knowledge and understanding         I discuss the positive and negative impact of the use of ICT in my own life, my friends and family.           I understand the potential risk of providing personal information online.         I recognise why people may publish content that is not accurate and understand the need to be critical evaluators of content.           I understand that some websites and/or pop-ups have commercial interests that may affect the way the information is presented.           I recognise the potential risks of using internet communication tools and understand how to minimise those risks (including scams and phishing).           I understand that some material on the internet is copyrighted and may not be copied or downloaded.           I understand that some messages may be malicious and know how to deal with this.           I understand that conline environments have security settings, which can be altered, to protect the user.           I understand that some malicious adults may use various techniques to make contact and elicit personal information.           I know that it is unsafe to arrange to meet unknown people online.           I know what to do if I discover something malicious or inappropriate.           I know what to do if I discover something malicious or inappropriate.           I create strong passwords and manage them so they remain so.           I l independently, and with regard for e-safety, select and use appropriate communicating tools to solve problems by collaborating and communicating with others within and beyond school. <t< td=""><td>Algorithms and programming         • I design a solution by breaking a problem up.         • I recognise that different solutions can exist for the same problem.         • I use logical reasoning to detect errors in algorithms.         • I use selection in programs.         • I work with variables.         • I explain how an algorithm works.         • I explain how an algorithm works.         • I explore 'what if questions by planning different scenarios for controlled devices.         Information technology         • I select, use and combine software on a range of digital devices.         • I use a range of technology for a specific project.         • I edit a film.         Digital literacy         • I discuss the risks of online use of technology.         • I identify how to minimise risks.</td></t<>	Algorithms and programming         • I design a solution by breaking a problem up.         • I recognise that different solutions can exist for the same problem.         • I use logical reasoning to detect errors in algorithms.         • I use selection in programs.         • I work with variables.         • I explain how an algorithm works.         • I explain how an algorithm works.         • I explore 'what if questions by planning different scenarios for controlled devices.         Information technology         • I select, use and combine software on a range of digital devices.         • I use a range of technology for a specific project.         • I edit a film.         Digital literacy         • I discuss the risks of online use of technology.         • I identify how to minimise risks.