Key Stage 1 Computing Progression: Being a Computer User				
Year 1	Year 2			
<u>Programming</u> : Understand what algorithms are; how they are implemented as and unambiguous instructions. Create and debug simple programs. Use logica				
I can talk about and understand that devices and software can be controlled by	I can use a range of instructions (e.g. direction, angles, turns).			
buttons.	I can test and amend a set of instructions, finding errors and debugging.			
I can talk about and understand that devices and actions on screen may be controlled	I can write a simple program and test it.			
by single step commands.	I can predict what the outcome of a simple program will be (logical reasoning).			
I can create a series of instructions.	I understand that algorithms are used on digital devices.			
I can plan a journey for a programmable toy.	I understand that programs require precise instructions.			
Information Technology: Use technology purposefully to create, organise, stor	e, manipulate and retrieve digital content.			
I can use a web site and begin to use tools to navigate web pages (e.g. scroll, back	I can recognise and talk about different sorts of digital content, information and data.			
button, hyperlink) to find answers to questions.	I can use a range of devices to access digital content.			
I can create, store and retrieve digital content.	I can organise digital content.			
I can use a camera.	I can retrieve and manipulate digital content.			
I can record sound and play back.	I can navigate the web to complete simple searches.			
Digital Literacy: Recognise common uses of information technology beyond sc				
private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.				
I follow the school's safer internet rules.	I follow the school's safer internet rules.			
I can talk about the difference between real and imaginary experiences on the computer	I can access content/learning spaces using a simple password			
and with technology.	I am beginning to use the Internet to communicate safely and respectfully			
I know some of the ways of keeping safe when using the Internet.	I can send and receive email as a class and know the difference between email and			
I know that the Internet can be used to communicate and I can keep personal	communication systems such as blogs and wikis.			
information private.	I know how technology is used in school and outside of school.			
I know of different methods of communication (e.g. email, blogs, facetime etc).	I have begun to evaluate websites and know that not everything on the internet is true.			
I know that it is not always allowed to copy text and pictures from the internet.	I know that bookmarking is a way to find safe sites again quickly.			

Key Stage 2 Computing Progression: Being a Computer User					
Year 3	Year 4	Year 5	Year 6		
Design, write & debug programs that accomplish spec. goals, incl. controlling or simulating physical systems; solve problems by decomposing into smaller parts. Use sequence, selection and repetition in progs; work with variables and various forms of input/output. Use logical reasoning to explain how simple algorithms work and detect and correct errors.					
I can design a sequence of instructions, including	I can experiment with variables to control models.	I can combine sequences of instructions and procedures	I can develop, test and refine procedures, including		
directional instructions. I can write programs that accomplish specific goals. I can work with various forms of input. I can work with various forms of output. I understand that different sequences of actions can	I can give an on-screen robot specific instructions that takes them from A to B. <b>(Yr5)</b> I can make an accurate prediction and explain why I believe something will happen I can de-bug a program. <b>(Yr5)</b>	to turn devices on and off. I can use technology to control an external device. I can design algorithms that use repetition & 2-way selection. I can begin to use sensors that cause an outcome.	using variables and sensors, for greater efficiency. I recognise that different solutions can exist for the same problem. I can explain how an algorithm works and use logical reasoning to detect errors.		
achieve the same outcome. I can recognise and use repeat instructions.	I understand that efficient procedures are important and build them to carry out specific outcomes. <b>(Yr5)</b>	I can group together instructions to solve problems and achieve specific outcomes.	I can explore 'what if' questions by planning different scenarios for controlled devices.		
		1 3	5		
Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. Select, use and combine a variety of software (inc. internet services) on a range of devices to design/create a range of programs, systems and content that accomplish given goals, inc. collecting, analysing, evaluating and					
presenting data and information.		······			
I can use a range of software to accomplish given goals I can collect and present information. I can use menus, indexes, search tools and key words to find particular information on a website knowing that this is the World Wide Web and part of the internet. I can design and create content. I can manipulate and improve digital images. I can talk about and question the relevance and reliability of content on the World Wide Web.	I can select and use software to accomplish given goals. I can collect and present data. I can produce and upload a pod cast. I can think about who owns content online and use tools to include or link from my own work as appropriate. I recognise that information on the internet may not be accurate or reliable and may be used for bias, manipulation or persuasion. <b>e internet; how they provide multiple services,</b> I can hyperlink to relevant content stored locally and online. I can begin to use appropriate tools to collaborate and communicate on the Internet. I know the difference between online communication tools used in school and those used at home.	I can select and use software on a range of digital devices to accomplish given goals. I can collect and present data, selecting appropriate style of presentation for given audience. I can analyse and evaluate information. I can understand and describe how search results are selected and ranked and use this to evaluate their usefulness. I can use tools and conventions to make searching more efficient (e.g. quotation marks) I can edit a film. <b>eg the world wide web; the opportunities they</b> I understand the opportunities computer networks and internet offer for communication. I can connect a computing device to a keyboard, mouse or printer. I can describe different parts of a computing device and how it connects to the Internet.	I can select, use and combine software on a range of digital devices for a specific project. I can use tools to process information from a range of sources to use in my own work. (e.g. notetaking, mindmaps, validity bias) I can begin to understand copyright and acknowledge where content has come from and reference sites in my own work (e.g. hyperlink to sites) <b>offer for communication and collaboration.</b> I can describe different services provided by the Internet and how information moves around the Internet. I can select and use a variety of methods to communicate and collaborate. I can use knowledge of the meaning of different domain names and common website extensions (e.g.		
I understand that the outcome of internet searches at home may be different than at school			.co.uk; .com; .ac; .sch; .org; .gov; .net) to support validation of information.		
	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.				
I follow the school's safer internet rules. I use technology respectfully and responsibly. I know different ways I can get help if I am concerned. I understand that if I make personal information available online it may be seen and used by others. I understand the need to develop an alias for some public online use.	I follow the school's safer internet rules. I understand that copyright exists and recognise the difference between the work of others which has been copied (plagiarism) and re-structuring and re-presenting materials in ways which are unique and new. I can explain and demonstrate how to use email safely. advice	I follow the school's safer internet rules. I can discuss the positive and negative impact of the use of ICT in my own life, my friends and family. I understand that some material on the internet is copyrighted and may not be copied or downloaded. I know that content put online is extremely difficult to remove. I know how to report abuse of online safety	I follow the school's safer internet rules. I understand that online environments have security settings, which can be altered, to protect the user. I understand I should not publish other people's pictures or tag them on the internet without permission. I can create strong passwords and manage them so that they remain strong. I understand what phishing is. I am aware of the need for authentication.		