

Computing Curriculum at Scargill CE Primary School

	Year 1 Computer User	Year 2 Computer User	Year 3 Computer User	Year 4 Computer User	Year 5 Computer User	Year 6 Computer User
Pupils should be taught to: • Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions • Create and debug simple programs • Use logical reasoning to predict the behaviour of simple programs • Use technology purposefully to create, organise, store, manipulate and retrieve digital content • Recognise common uses of information technology beyond school • Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.		by decomposing them into sma Use sequence, selection, and re Use logical reasoning to explain Understand computer network opportunities they offer for cor Use search technologies effecti Select, use and combine a varie programs, systems and content information	epetition in programs; work with value how some simple algorithms work is including the internet; how they communication and collaboration vely, appreciate how results are selectly of software (including internet set that accomplish given goals, including and responsibly; recognise accessions.	riables and various forms of input as and to detect and correct errors in can provide multiple services, such a ected and ranked, and be discerning ervices) on a range of digital deviceding collecting, analysing, evaluating	and output In algorithms and programs In algorithms and programs In as the world wide web; and the Ing in evaluating digital content It is to design and create a range of It is and presenting data and	



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Progression and Assessment Criteria	Algorithms and programming Create a series of instructions. Plan a journey for a programmable toy. Information technology Create digital content. Store digital content. Retrieve digital content. Use a website. Use a camera. Record sound and play back. Digital literacy Use technology safely. Keep personal information private. (See below for further details)	Algorithms and programming Use a range of instructions (e.g. direction, angles, turns). Test and amend a set of instructions. Find errors and amend. (debug) Write a simple program and test it. Predict what the outcome of a simple program will be (logical reasoning). Understand that algorithms are used on digital devices. Understand that programs require precise instructions. Information technology Organise, retrieve and manipulate digital content. Can navigate the web to complete simple searches. Digital literacy Use technology respectfully. Know where to go for help if I am concerned. Know how technology is used in school and outside of school. (See below for further details)	 Algorithms and programming Design a sequence of instructions, including directional instructions. Write programs that accomplish specific goals. Work with various forms of input and output. Information technology Use a range of software for similar purposes. Collect and present information. Design and create content. Search for information on the web in different ways. Manipulate and improve digital images. Digital literacy Use technology respectfully and responsibly. Know different ways I can get help if I am concerned. Understand what computer networks do and how they provide multiple services. Discern where it is best to use technology and where it adds little or no value. (See below for further details) 	Algorithms and programming Experiment with variables to control models. Give an on-screen robot specific instructions that takes them from A to B. Make an accurate prediction and explain why I believe something will happen (linked to programming). De-bug a program. Information technology Select and use software to accomplish given goals. Collect and present data. Produce and upload a podcast. Digital literacy Recognise acceptable and unacceptable behaviour using technology. (See below for further details)	Algorithms and programming Combine sequences of instructions and procedures to turn devices on and off. Use technology to control an external device. Design algorithms that use repetition and 2-way selection. Information technology Analyse information. Evaluate information. Understand how search results are selected and ranked. Edit a film. Digital literacy Understand that you have to make choices when using technology and that not everything is true and/or safe. (See below for further details)	Algorithms and programming Design a solution by breaking a problem up. Recognise that different solutions can exist for the same problem. Use logical reasoning to detect errors in algorithms. Use selection in programs. Work with variables. Explain how an algorithm works. Explore 'what if' questions by planning different scenarios for controlled devices. Information technology Select, use and combine software on a range of digital devices. Use a range of technology for a specific project. Digital literacy Discuss the risks of online use of technology. Identify how to minimise risks. (See below for further details)
	A safe computer user in Year 1 and Year 2		A safe computer user in Year 3 and Year 4		A safe computer user in Year 5 and Year 6	



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Progression and Compliance Criteria	Knowledge and understanding Understand the different methods of communication (e.g. email, online forums etc). Know you should only open email from a known source. Know the difference between email and communication systems such a blogs and wikis. Know that websites sometimes include pop-ups that take me away from the main site. Know that bookmarking is a way to find safe sites again quickly. Have begun to evaluate websites and know that everything on the internet is not true. Know that it is not always possible to copy some text and pictures from the internet. Know that personal information should not be shared online. Know I must tell a trusted adult immediately if anyone tries to meet me via the internet. Skills Follow the school's safer internet rules. Use the search engines agreed by the school. Know what to do if I find something inappropriate online or something am unsure of (including identifying people who can help; minimising screen; online reporting using school system etc.). Use the internet for learning and communicating with others, making choices when navigating through sites. Send and receive email as a class. Recognise advertising on websites and learn to ignore it. Use a password to access the secure network.	and ideas online. Recognise that information on the reliable and may be used for bias, reliable and may be used for bias, reliable and that the internet contact to distinguish between them. Use strategies to verify information understand the need for caution wimages and what to do if I find an ueleast understand that copyright exists or recorded music. Understand that copyright exists or recorded music. Understand the need to keep personal seen and used by others. Know how to respond if asked for pabout content of a message. Recognise that cyber bullying is unalline with the school's policy.	manipulation or persuasion. ains fact, fiction and opinion and begin n, e.g. cross-checking. when using an internet search for unsuitable image. n most digital images, video and conal information and passwords information available online it may be personal information or feel unsafe acceptable and will be sanctioned in cyber bullying. ne communication tools used in school n alias for some public online use. sternet searches at home may be ules. the work of others which has been ing and re-presenting materials in e opened and when an attachment	 Understand that some material on the copied or downloaded. Understand that some messages might this. Understand that online environments altered, to protect the user. Understand the benefits of developed understand that some malicious ad make contact and elicit personal infoliations. Know that it is unsafe to arrange to the Know how to report any suspicions. Understand I should not publish othe internet without permission. Know that content put online is extended to the internet without permission. Know what to do if I discover some to the internet without permission. Know that content put online is extended to the safe choices about the use of the use of	eviding personal information online. content that is not accurate and evaluators of content. d/or pop-ups have commercial de information is presented. de information is presented. de information is presented. de internet communication tools and risks (including scams and phishing). The internet is copyrighted and may deay be malicious and know how to deal atts have security settings, which can deay a 'nickname' for online use. dults may use various techniques to formation. deer unknown people online. deer people's pictures or tag them on deeple deep	

website extensions (e.g. .co.uk; .com; .ac; .sch; .org; .gov; .net) to support

validation of information.