

Geography	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Computing Systems and Networks – The Internet	Creating Media – Audio Editing	Programming – Repetition in shapes	Data and Information – Data Logging	Creating Media – Photo Editing	Programming – Repetition in games
Year 6	Recognise how networks of devices make up the internet	Using Audacity to create music/songs and overlaying beats/samples.	Being able to create loops in scratch to repeat actions	Using data loggers to create questions/answers to questions	Use photoshop tools to show how photos can be edited	Being able to create count-controlled loops in scratch to repeat actions in games
	To see how websites are created and added to the internet	Use audacity and voice recordings to create a podcast	Testing and developing changes in loops to create a correct algorithm	Understand that for a data logger to work it requires an input and then will produce an output	Create “Fake” photos using skills they’ve learned through photo editing	To design and create a project involving loops
	Concepts: • Safety & Security • Creating media • Networks	Concepts: • Effective use of tools/software • Design & Development • Creating media • Computer Systems • Data and information	Concepts: • Algorithms • Programming • Effective use of tools/software	Concepts: • Data and information • Effective use of tools/software • Computer Systems	Concepts: • Effective use of tools/software • Safety & Security • Design & Development • Creating media • Impact of technology	Concepts: • Algorithms • Programming • Design & Development
National Curriculum Coverage	• understand computer networks including the internet; how they can provide multiple	• use search technologies effectively, appreciate how results are selected and ranked,	• design, write and debug programs that accomplish specific goals, including controlling or	• use sequence, selection, and repetition in programs; work with variables and various forms of input and output	• use search technologies effectively, appreciate how results are selected	• design, write and debug programs that accomplish specific goals, including controlling

	services, such as the world wide web; and the opportunities they offer for communication and collaboration • 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 (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information • use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	and be discerning in evaluating digital content • select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information • use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	simulating physical systems; solve problems by decomposing them into smaller parts • use sequence, selection, and repetition in programs; work with variables and various forms of input and output • use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs • select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	• select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	and ranked, and be discerning in evaluating digital content • select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information • use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	or simulating physical systems; solve problems by decomposing them into smaller parts • use sequence, selection, and repetition in programs; work with variables and various forms of input and output • use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
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Sticky Knowledge	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
SK1	- I know how to demonstrate how information is shared	- I know how to identify digital devices that can record sound and play	- I know how to create a code snippet for a given purpose	- I know how to choose a data set to answer a given question	- I know how to explain the effect that editing can	- I know how to list an everyday task as a set of instructions

	across the internet - I know how to describe the internet as a network of networks - I know how to discuss why a network needs protecting	it back - I know how to identify the inputs and outputs required to play audio or record sound - I know how to recognise the range of sounds that can be recorded	- I know how to explain the effect of changing a value of a command - I know how to program a computer by typing commands	- I know how to identify data that can be gathered over time - I know how to suggest questions that can be answered using a given data set	have on an image - I know how to explore how images can be changed in real life - I know how to identify changes that we can make to an image	including repetition - I know how to modify a snippet of code to create a given outcome - I know how to predict the outcome of a snippet of code
SK2	- I know how to describe networked devices and how they connect - I know how to explain that the internet is used to provide many services - I know how to recognise that the World Wide Web contains websites and web pages	- I know how to discuss what other people include when recording sound for a podcast - I know how to suggest how to improve my recording - I know how to use a device to record audio and play back sound	- I know how to test my algorithm in a text-based language - I know how to use a template to create a design for my program - I know how to write an algorithm to produce a given outcome	- I know how to explain that sensors are input devices - I know how to identify that data from sensors can be recorded - I know how to use data from a sensor to answer a given question	- I know how to change the composition of an image by selecting parts of it - I know how to consider why someone might want to change the composition of an image - I know how to explain what has changed in an edited image	- I know how to choose when to use a count-controlled and an infinite loop - I know how to modify loops to produce a given outcome - I know how to recognise that some programming languages enable more than one process to be run at once
SK3	- I know how to describe how to access websites on the WWW - I know how to describe where websites are stored when uploaded to the WWW - I know how to explain the types of media that can be shared on the WWW	- I know how to discuss why it is useful to be able to save digital recordings - I know how to plan and write the content for a podcast - I know how to save a digital recording as a file	- I know how to identify everyday tasks that include repetition as part of a sequence, eg brushing teeth, dance moves - I know how to identify patterns in a sequence - I know how to use a count-controlled loop to produce a given outcome	- I know how to identify a suitable place to collect data - I know how to identify the intervals used to collect data - I know how to talk about the data that I have captured	- I know how to choose effects to make my image fit a scenario - I know how to explain why my choices fit a scenario - I know how to talk about changes made to images	- I know how to choose which action will be repeated for each object - I know how to evaluate the effectiveness of the repeated sequences used in my program - I know how to explain what the outcome of the repeated action should be

SK4	- I know how to explain that internet services can be used to create content online - I know how to explain what media can be found on websites - I know how to recognise that I know how to add content to the WWW	- I know how to discuss ways in which audio recordings can be altered - I know how to edit sections of of an audio recording - I know how to open a digital recording from a file	- I know how to choose which values to change in a loop - I know how to identify the effect of changing the number of times a task is repeated - I know how to predict the outcome of a program containing a count-controlled loop	- I know how to import a data set - I know how to use a computer program to sort data - I know how to use a computer to view data in different ways	- I know how to choose appropriate tools to retouch an image - I know how to give examples of positive and negative effects that retouching can have on an image - I know how to identify how an image has been retouched	- I know how to explain the effect of my changes - I know how to identify which parts of a loop can be changed - I know how to re-use existing code snippets on new sprites
SK5	- I know how to explain that there are rules to protect content - I know how to explain that websites and their content are created by people - I know how to suggest who owns the content on websites	- I know how to choose suitable sounds to include in a podcast - I know how to discuss sounds that other people combine - I know how to use editing tools to arrange sections of audio	- I know how to explain that a computer can repeatedly call a procedure - I know how to identify 'chunks' of actions in the real world - I know how to use a procedure in a program	- I know how to plan how to collect data using a data logger - I know how to propose a question that can be answered using logged data - I know how to use a data logger to collect data	- I know how to combine parts of images to create new images - I know how to sort images into 'fake' or 'real' and explain my choices - I know how to talk about fake images around me	- I know how to develop my own design explaining what my project will do - I know how to evaluate the use of repetition in a project - I know how to select key parts of a given project to use in my own design
SK6	- I know how to explain that not everything on the World Wide Web is true - I know how to explain why I need to think carefully before I share or reshare content - I know how to explain why some information I find online may not be honest, accurate, or legal	- I know how to discuss the features of a digital recording I like - I know how to explain that digital recordings need to be exported to share them - I know how to suggest improvements to a digital recording	- I know how to design a program that includes count-controlled loops - I know how to develop my program by debugging it - I know how to make use of my design to write a program	- I know how to draw conclusions from the data that I have collected - I know how to explain the benefits of using a data logger - I know how to interpret data that has been collected using a data logger	- I know how to compare the original image with my completed publication - I know how to consider the effect of adding other elements to my work - I know how to evaluate the impact of my publication on others through feedback	- I know how to build a program that follows my design - I know how to evaluate the steps I followed when building my project - I know how to refine the algorithm in my design

