

Year 3 Computing Curriculum Map

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Computing Systems	Creating Media –	Programming A -	Data and	Creating media –	Programming B -
and Networks – Connecting	stop frame	Sequencing sounds	information –	Desktop publishing	Events and actions
computers	animation		Branching		in programs
Lesson 1: To explain	Lesson 1: To explain	Lesson 1: To explore a	databases Lesson 1: I can	Lesson 1: To	Lesson 1: To explain
how digital devices	that animation is a	new programming	create questions	recognise how text	how a sprite moves
function.	sequence of drawings or	environment	with yes/no	and images convey	in an existing project
	photographs	I can explain that	answers	information	I can choose which
I can explain that	T	objects in Scratch have	I can create two	• I can explain the	keys to use for actions
digital devices accept inputs	 I can draw a sequence of pictures 	attributes (linked to)I can identify the	groups of objects	difference between	and explain my choices
I can explain that	 I can create an 	objects in a Scratch	separated by one attribute	text and imagesI can identify the	 I can explain the
digital devices	effective flip book—	project (sprites,	I can investigate	advantages and	relationship between
produce outputs	style animation	backdrops)	questions with	disadvantages of	an event and an
• I can follow a process	I can explain how an animation/flip book	I can recognise that commands in Scratch	yes/no answers	using text and images	actionI can identify a way to
	works	are represented as	 I can make up a yes/no question 	• I can recognise that text and images can	improve a program
		blocks	about a collection	communicate	
			of objects	messages clearly	
Lesson 2: To identify	Lesson 2: To relate	Lesson 2: To identify	Lesson 2: To	Lesson 2: To	Lesson 2: To create
input and output devices.	animated movement	that commands have	identify the	recognise that text	a program to move a
	with a sequence of	 an outcome I can choose a word 	attributes needed to collect data	and layout can be edited	sprite in four directions
I can classify input	 images I can create an 	which describes an on-	about an object	I can change font	 I can choose a
and output devices	effective stop-frame	screen action for my	 I can arrange 	style, size, and	character for my
I can design a digital	animation	plan	objects into a tree	colours for a given	project
deviceI can describe a	I can explain why	• I can create a program following a design	structure	purposeI can edit text	 I can choose a suitable size for a
simple process	little changes are	 I can identify that each 	 I can create a group of objects 	 I can explain that text 	character in a maze
	needed for each	sprite is controlled by	within an existing	can be changed to	 I can program
	frameI can predict what an	the commands I choose	group	communicate more	movement
	 I can predict what an animation will look 		 I can select an 	clearly	
	like		attribute to separate objects		
			into groups		

 Lesson 3: To recognise how digital devices can change the way we work. I can explain how I use digital devices for different activities I can recognise similarities between using digital devices and non-digital tools I can suggest differences between using digital devices and non-digital tools 	 Lesson 3: To plan an animation I can break down a story into settings, characters and events I can create a storyboard I can describe an animation that is achievable on screen 	 Lesson 3: To explain that a program has a start I can create a sequence of connected commands I can explain that the objects in my project will respond exactly to the code I can start a program in different ways 	 Lesson 3: To create a branching database I can group objects using my own yes/no questions I can select objects to arrange in a branching database I can test my branching database to see if it works 	 Lesson 3: To choose appropriate page settings I can create a template for a particular purpose I can define the term 'page orientation' I can recognise placeholders and say why they are important 	 Lesson 3: To adapt a program to a new context I can choose blocks to set up my program I can consider the real world when making design choices I can use a programming extension
 I can recognise different connections I can explain how 	Lesson 4: To identify the need to work consistently and carefully ality of my animation I can frames to check my work ng to help me make small nes	 Lesson 4: To recognise that a sequence of commands can have an order I can combine sound commands I can explain what a sequence is I can order notes into a sequence 	Lesson 4: To explain why it is helpful for a database to be well structured • I can compare two branching database structures • I can create yes/no questions using given attributes • I can explain that questions need to be ordered carefully to split objects into similarly sized groups	 Lesson 4: To add content to a desktop publishing publication I can choose the best locations for my content I can make changes to content after I've added it I can paste text and images to create a magazine cover 	 Lesson 4: To develop my program by adding features I can build more sequences of commands to make my design work I can choose suitable keys to turn on additional features I can identify additional features (from a given set of blocks)
Lesson 5: To explore how digital devices can be connected.	Lesson 5: To review and improve an animation	 Lesson 5: To change the appearance of my project I can build a sequence of commands 	Lesson 5: To plan the structure of a branching databases	Lesson 5: To consider how different layouts can suit different purposes	 Lesson 5: To identify and fix bugs in a program I can match a piece of code to an outcome

 I can recognise that a computer network is made up of a number of devices I can demonstrate how information can be passed between devices I can explain the role of a switch, server, and wireless access point in a network 	 I can evaluate another learners animation I can explain ways to make my animation better I can improve my animation based on feedback 	 I can decide the actions for each sprite in a program I can make design choices for my artwork 	 I can create a physical version of a branching database I can create questions that will enable objects to be uniquely identified I can independently create questions to use in a branching database 	 I can choose a suitable layout for a given purpose I can identify different layouts I can match a layout to a purpose 	against a given design
Lesson 6: To recognise the physical	Lesson 6: To evaluate the impact of adding	Lesson 6: To create a project from a task	Lesson 6: To independently	Lesson 6: To consider the benefits	Lesson 6: To design and create a maze-
components of a	other media to an	description	create an	of desktop	based challenge
 I can identify how devices in a network are connected together I can identify networked devices around me I can identify the benefits of computer networks 	 animation I can add other media to my animation I can evaluate my final film I can explain why I added other media to my animation 	 I can identify and name the objects I will need for a project I can implement my algorithm as code I can relate a task description to a design 	 identification tool I can create a branching database that reflects my plan I can suggest realworld uses for branching databases I can work with a partner to test my identification tool 	 publishing I can compare work made on desktop publishing to work created by hand I can identify the uses of desktop publishing in the real world I can say why desktop publishing might be helpful 	 I can evaluate my project I can implement my design I can make design choices and justify them