



	Computing systems and networks	Creatin	g media	Data and information	Progra	mming
	Digital literacy	Information	i technology	Information technology	Compute	er science
	Technology Around Us	Digital Painting	Digital Writing	Grouping Data	Moving a Robot	Programming Animations
	Lesson 1: Technology in our classroom	Lesson 1: How can we paint using computers?	Lesson 1: Exploring the keyboard	Lesson 1: Label and match	Lesson 1: Buttons	Lesson 1: Comparing tools
	 I can explain how these technology examples help us I can explain technology as something that helps us I can locate examples of technology in the classroom 	 I can draw lines on a screen and explain which tools I used I can make marks on a screen and explain which tools I used I can use the paint tools to draw a nicture 	 I can identify and find keys on a keyboard I can open a word processor I can recognise keys on a keyboard 	 I can describe objects using labels I can identify the label for a group of objects I can match objects to groups 	 I can match a command to an outcome I can predict the outcome of a command on a device I can run a command on a device 	 I can compare different programming tools I can find which commands to move a sprite I can use commands to move a sprite
	Lesson 2: Using technology	Lesson 2: Using shapes and lines	Lesson 2: Adding and removing text	Lesson 2: Group and count	Lesson 2: Directions	Lesson 2: Joining blocks
	 I can name the main parts of a computer I can switch on and log into a computer I can use a mouse to click and drag 	 I can make marks with the square and line tools I can use the shape and line tools effectively I can use the shape and line tools to recreate the work of an artist 	 I can enter text into a computer I can use backspace to remove text I can use letter, number, and space keys 	 I can count a group of objects I can count objects I can group objects 	 I can follow an instruction I can give directions I can recall words that can be acted out 	 I can run my program I can use a Start block in a program I can use more than one block by joining them together
	Lesson 3: Developing mouse skills	Lesson 3: Making careful choices	Lesson 3: Exploring the toolbar	Lesson 3: Describe an object	Lesson 3: Forwards and backwards	Lesson 3: Make a change
	 I can click and drag to make objects on a screen I can use a mouse to create a picture I can use a mouse to open a program 	 I can choose appropriate shapes I can create a picture in the style of an artist I can make appropriate colour choices 	 I can explain what the keys that I have learnt about already do I can identify the toolbar and use bold, italic, and underline I can type capital letters 	 I can describe an object I can describe a property of an object I can find objects with similar properties 	 I can compare forwards and backwards movements I can predict the outcome of a sequence involving forwards and backwards commands I can start a sequence from the same place 	 I can change the value I can find blocks that have numbers I can say what happens when I change a value
	Lesson 4: Using a computer keyboard	Lesson 4: Why did I choose that?	Lesson 4: making changes to text	Lesson 4: Making different groups	Lesson 4: Four directions	Lesson 4: Adding sprites
Year 1	 I can save my work to a file I can say what a keyboard is for I can type my name on a computer 	 I can choose appropriate paint tools and colours to recreate the work of an artist I can say which tools were helpful and why I know that different paint tools do different jobs 	 I can change the font I can select all of the text by clicking and dragging I can select a word by double clicking 	 I can count how many objects share a property I can group objects in more than one way I can group similar objects 	 I can compare left and right turns I can experiment with turn and move commands to move a robot I can predict the outcome of a sequence involving up to four commands 	 I can add blocks to each of my sprites I can delete a sprite I can show that a project can include more than one sprite
r.	Lesson 5: Developing keyboard skills	Lesson 5: Painting all by myself	Lesson 5: Explaining my choices	Lesson 5: Comparing groups	Lesson 5: Getting there	Lesson 5: Project design
	 I can delete letters I can open my work from a file I can use the arrow keys to move the cursor 	 I can change the colour and brush sizes I can make dots of colour on the page I can use dots of colour to create a picture in the style of an artist on my own 	 I can decide if my changes have improved my writing I can say what tool I used to change the text I can use 'undo' to remove changes 	 I can choose how to group objects I can describe groups of objects I can record how many objects are in a group 	 I can choose the order of commands in a sequence I can debug my program I can explain what my program should do 	 I can choose appropriate artwork for my project I can create an algorithm for each sprite I can decide how each sprite will move
	Lesson 6: Using a computer responsibly	Lesson 6: Comparing computer art and painting	Lesson 6: Pencil or keyboard	Lesson 6: Answering questions	Lesson 6: Routes	Lesson 6: Following my design
	 I can discuss how we benefit from these rules I can give examples of some of these rules I can identify rules to keep us safe and healthy when we are using technology in and beyond the home 	 I can explain that pictures can be made in lots of different ways I can say whether I prefer painting using a computer or using paper I can spot the differences between painting on a computer and on paper 	 I can explain the differences between typing and writing I can make changes to text on a computer I can say why I prefer typing or writing 	 I can compare groups of objects I can decide how to group objects to answer a question I can record and share what I have found 	 I can identify several possible solutions I can plan two programs I can use two different programs to get to the same place 	 I can add programming blocks based on my algorithm I can test the programs I have created I can use sprites that match my design
	Vocabulary					
	Technology, computer, mouse, trackpad, keyboard, screen, double-click, typing	paint program, tool, paintbrush, erase, fill, undo, Piet Mondrian, primary colours, shape tools, line tool, fill tool, Henri Matisse, Wassily Kandinsky, feelings, colour, brush style, Georges Seurat, Pointillism, brush size, Pictures, painting, computers, like, prefer, dislike	Word processor, keyboard, keys, letters, Microsoft Word, Google Docs, numbers, space, backspace, text cursor, toolbar, bold, italic, underline, mouse, cursor, select, font, undo, font, backspace	Object, label, group, search, image, property, colour, size, shape, value, label, data set, more, less, most, fewest, the same	Forwards, backwards, turn, clear, go, commands, instructions, directions, left, right, turn, plan, algorithm, program, route	ScratchJr, Bee-Bot, command, sprite, compare, programming, programming area, block, joining, command, Start block, run, program, background, delete, reset, algorithm, predict, effect, change, value, instructions, appropriate, design
			Formative	Assessment		
	Assessment opportunities are incorporated into	each lesson. The learning objective and success	criteria are introduced and then reviewed at the	end. Learners assess how well they have met the l	learning objective in a variety of ways.	





	Computing systems and networks	Creatin	g media	Data and information	Progra	mming
	Digital literacy	Information	technology	Information technology	Compute	er science
	IT all around us	Digital Photography	Digital Music	Pictograms	Robot algorithms	Programming quizzes
	Lesson 1: What is IT?	Lesson 1: Taking photographs	Lesson 1: How music makes us feel	Lesson 1: Counting and comparing	Lesson 1: Giving instructions	Lesson 1: ScratchJr recap
	 I can describe some uses of computers I can identify examples of computers I can identify that a computer is a part of IT 	 I can explain what I did to capture a digital photo I can recognise what devices can be used to take photographs I can talk about how to take a photograph 	 I can describe music using adjectives I can identify simple differences in pieces of music I can say what I do and don't like about a piece of music 	 I can compare totals in a tally chart I can record data in a tally chart I can represent a tally count as a total 	 I can choose a series of words that can be enacted as a sequence I can follow instructions given by someone else I can give clear instructions 	 I can identify that a program needs to be started I can identify the start of a sequence I can show how to run my program
	Lesson 2: IT in school	Lesson 2: Landscape or portrait?	Lesson 2: Rhythms and patterns	Lesson 2: Enter the data	Lesson 2: Same but different	Lesson 2: Outcomes
	 I can identify examples of IT I can identify that some IT can be used in more than one way I can sort school IT by what it's used for 	 I can explain the process of taking a good photograph I can explain why a photo looks better in portrait or landscape format I can take photos in both landscape and portrait format 	 I can create a rhythm pattern I can explain that music is created and played by humans I can play an instrument following a rhythm pattern 	 I can enter data onto a computer I can use a computer to view data in a different format I can use pictograms to answer simple questions about objects 	 I can show the difference in outcomes between two sequences that consist of the same commands I can use an algorithm to program a sequence on a floor robot I can use the same instructions to create different algorithms 	 I can change the outcome of a sequence of commands I can match two sequences with the same outcome I can predict the outcome of a sequence of commands
	Lesson 3: IT in the world	Lesson 3: What makes a good photograph?	Lesson 3: How music can be used	Lesson 3: Creating pictograms	Lesson 3: Making predictions	Lesson 3: Using a design
	 I can find examples of information technology I can sort IT by where it is found I can talk about uses of information technology 	 I can discuss how to take a good photograph I can identify what is wrong with a photograph I can improve a photograph by retaking it 	 I can connect images with sounds I can relate an idea to a piece of music I can use a computer to experiment with pitch 	 I can explain what the pictogram shows I can organise data in a tally chart I can use a tally chart to create a pictogram 	 I can compare my prediction to the program outcome I can follow a sequence I can predict the outcome of a sequence 	 I can build the sequences of blocks I need I can decide which blocks to use to meet the design I can work out the actions of a sprite in an algorithm
	Lesson 4: The benefits of IT	Lesson 4: Lighting	Lesson 4: Notes and tempo	Lesson 4: What is an attribute?	Lesson 4: Mats and routes	Lesson 4: Changing a design
Year 2	 I can demonstrate how IT devices work together I can recognise common types of technology I can say why we use IT 	 I can experiment with different light sources I can explain why a picture may be unclear I can explore the effect that light has on a photo 	 I can explain how my music can be played in different ways I can identify that music is a sequence of notes I can refine my musical pattern on a computer 	 I can answer 'more than'/'less than' and 'most/least' questions about an attribute I can create a pictogram to arrange objects by an attribute I can tally objects using a common attribute 	 I can explain the choices I made for my mat design I can identify different routes around my mat I can test my mat to make sure that it is usable 	 I can choose backgrounds for the design I can choose characters for the design I can create a program based on the new design
	Lesson 5: Using IT safely	Lesson 5: Effects	Lesson 5: Creating digital music	Lesson 5: Comparing people	Lesson 5: Algorithm design	Lesson 5: Designing and creating a program
	 I can list different uses of information technology I can say how rules can help keep me safe I can talk about different rules for using IT 	 I can explain my choices I can recognise that images can be changed I can use a tool to achieve a desired effect 	 I can add a sequence of notes to my rhythm I can create a rhythm which represents an animal I've chosen I can create my animal's rhythm on a computer 	 I can choose a suitable attribute to compare people I can collect the data I need I can create a pictogram and draw conclusions from it 	 I can create an algorithm to meet my goal I can explain what my algorithm should achieve I can use my algorithm to create a program 	 I can build sequences of blocks to match my design I can choose the images for my own design I can create an algorithm
	Lesson 6: Using IT in different ways	Lesson 6: Is it real?	Lesson 6: Reviewing and editing music	Lesson 6: Presenting information	Lesson 6: Debugging	Lesson 6: Evaluating
	 I can explain the need to use IT in different ways I can identify the choices that I make when using IT I can use IT for different types of activities 	 I can apply a range of photography skills to capture a photo I can identify which photos are real and which have been changed I can recognise which photos have been changed 	 I can explain how I changed my work I can listen to music and describe how it makes me feel I can review my work 	 I can give simple examples of why information should not be shared I can share what I have found out using a computer I can use a computer program to present information in different ways 	 I can plan algorithms for different parts of a task I can put together the different parts of my program I can test and debug each part of the program 	 I can compare my project to my design I can debug my program I can improve my project by adding features
	Information technology (IT), computer.	Device, camera, photograph, capture, image	Music, planets, Mars, Venus, war, peace.	More than, less than, most, least, organise	Instruction, sequence, clear, unambiguous	Sequence, command, program, run, start
	barcode, scanner/scan	digital, landscape, portrait, framing, subject, compose, light sources, flash, focus, background, editing, filter, format, lighting, focus	quiet, loud, feelings, emotions, pattern, rhythm, pulse, Neptune, pitch, tempo, notes, instrument, create, pulse/beat, open, edit	data, object, tally chart, votes, total, enter, compare, count, pictogram, explain, more common, least common, attribute, group, same, different most popular, least popular, conclusion, block diagram, sharing, data	algorithm, program, order, algorithm, commands, prediction, artwork, design, route, mat, debugging	outcome, predict, blocks, sprite, algorithm, design, actions, project, design, modify, change, build, match, compare, debug, features, evaluate
	Assessment opportunities are incorporated into	each lesson. The learning objective and success	criteria are introduced and then reviewed at the	end. Learners assess how well they have met the l	earning objective in a variety of ways	
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	Digital literacy	Information	technology	Information technology	Compute	er science
	Connecting computers	Stop-frame animation	Desktop publishing	Branching databases	Sequencing sounds	Events and actions in programs
	Lesson 1: How does a digital device work?	Lesson 1: Can a picture move?	Lesson 1: Words and pictures	Lesson 1: Yes or no questions	Lesson 1: Introduction to scratch	Lesson 1: Moving a sprite
	 I can explain that digital devices accept inputs I can explain that digital devices produce outputs I can follow a process 	 I can create an effective flip book—style animation I can draw a sequence of pictures I can explain how an animation/flip book works 	 I can explain the difference between text and images I can identify the advantages and disadvantages of using text and images I can recognise that text and images can communicate messages clearly 	 I can create two groups of objects separated by one attribute I can investigate questions with yes/no answers I can make up a yes/no question about a collection of objects 	 I can explain that objects in Scratch have attributes (Year 2) I can identify the objects in a Scratch project (sprites, backdrops) I can recognise that commands in Scratch are represented as blocks 	 I can choose which keys to use for actions and explain my choices I can explain the relationship between an event and an action I can identify a way to improve a program
	Lesson 2: What parts make up a digital device?	Lesson 2: Frame by frame	Lesson 2: Can you edit it?	Lesson 2: Making groups	Lesson 2: Programming sprites	Lesson 2: Maze movement
	 I can classify input and output devices I can describe a simple process I can design a digital device 	 I can create an effective stop frame animation I can explain why little changes are needed for each frame I can predict what an animation will look like 	 I can change font style, size, and colours for a given purpose I can edit text I can explain that text can be changed to communicate more clearly 	 I can arrange objects into a tree structure I can create a group of objects within an existing group I can select an attribute to separate objects into groups 	 I can choose a word which describes an onscreen action for my plan I can create a program following a design I can identify that each sprite is controlled by the commands I choose 	 I can choose a character for my project I can choose a suitable size for a character in a maze I can program movement
	Lesson 3: How do digital devices help us?	Lesson 3: What's the story?	Lesson 3: Great template!	Lesson 3: Creating a branching database	Lesson 3: Sequences	Lesson 3: Drawing lines
	 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 	 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 	 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 	 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 	 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 	 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
	Lesson 4: How am I connected?	Lesson 4: Picture perfect	Lesson 4: Can you add content?	Lesson 4: Structuring a branching database	Lesson 4: Ordering commands	Lesson 4: Adding features
Year 3	 I can discuss why we need a network switch I can explain how messages are passed through multiple connections I can recognise different connections 	 I can evaluate the quality of my animation I can review a sequence of frames to check my work I can use onion skinning to help me make small changes between frames 	 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 	 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 	 I can combine sound commands I can explain what a sequence is I can order notes into a sequence 	 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: How are computers connected?	Lesson 5: Evaluate and make it great!	Lesson 5: Lav it out	Lesson 5: Using a branching database	Lesson 5: Looking good	Lesson 5: Debugging movement
	 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 recognise that a computer network is made up of a number of devices 	 I can evaluate and make it great? I can evaluate another learner's animation I can explain ways to make my animation better I can improve my animation based on feedback 	 I can choose a suitable layout for a given purpose I can identify different layouts I can match a layout to a purpose 	 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 build a sequence of commands I can decide the actions for each sprite in a program I can make design choices for my artwork 	 I can match a piece of code to an outcome I can modify a program using a design I can test a program against a given design
	Lesson 6: what does our school network look	Lesson 6: Lights, camera, action!	Lesson 6: Why desktop publishing?	Lesson 6: Two ways of presenting information	Lesson 6: Making an instrument	Lesson 6: Making a project
	 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 	 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 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 create a branching database that reflects my plan I can suggest real world uses for branching databases I can work with a partner to test my identification tool 	 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 	 I can evaluate my project I can implement my design I can make design choices and justify them
	Vocabulary					
	Digital device, input, output, process, process, pictogram, connection, network, network switch, server, wireless access point	Animation, flip book, stop-frame animation, frame, sequence, image, photograph, setting, character, events, onion skinning, consistency, evaluation, delete, media, import, transition	Text, images, advantages, disadvantages, communicate, font, font style, communicate, template, landscape, portrait, orientation, placeholder, layout, content, desktop publishing, copy, paste, purpose, benefits	Branching database, database, attribute, value, questions, objects, equal, even, separate, structure, compare, order, organise, j2data, selecting, pictogram, information, decision tree	Scratch, programming, blocks, commands, code, sprite, costume, stage, backdrop, motion, turn, point in direction, go to, glide, sequence, event, task, design, code, run the code, order, note, chord, stage, costume, backdrop, design, algorithm, bug, debug	Motion, event, sprite, algorithm, logic, move, resize, algorithm, extension block, pen up, set up, pen, design, event, action, debugging, errors, design, code, test
	Summative assessment on Teach Computing	Croate a story based animation using the	Compo	Sile Lask	Create a representation of a piane using a	Summative assessment on Teach Computing
	Summative assessment on Teach Computing	Create a story-based animation using the Rubric	Create a magazine front cover using the Rubric	summative assessment on Teach Computing	Create a representation of a plano using a Rubric	summative assessment on Teach Computing





Computing systems and networks	Creatin	g media	Data and information	Progra	amming
Digital literacy	Information	n technology	Information technology	Compute	er science
The internet	Audio Production	Photo Editing	Data logging	Repetition in shapes	Repetition in games
Lesson 1: Connecting networks	Lesson 1: Digital Recoding	Lesson 1: Changing image details	Lesson 1: Answering questions	Lesson 1: Programming a turtle	Lesson 1: Using loops to create shapes
• I can describe the internet as a network	I can identify the input and output	I can improve an image by rotating it	I can choose a data set to answer a given	I can program a computer by typing	• I can list an everyday task as a set of
of networks	devices used to record and play sound	I can explain why I might crop an image	question	commands	Instructions including repetition
 I can demonstrate now information is shared across the internet 	I can use a computer to record audio	I can use photo editing software to crop	I can suggest questions that can be answored using a given data set	 I can explain the effect of changing a value of a command 	 I can predict the outcome of a snippet of codo
 I can discuss why a network needs 	 I can explain that the person who records the sound can say who is 	an image	 I can identify data that can be gathered 	 I can create a code snippet for a given 	 I can modify a spinnet of code to create
protecting	allowed to use it		over time	purpose	a given outcome
Lesson 2: What is the internet made of?	Lesson 2: Recording sounds	Lesson 2: Changing the composition of images	Lesson 2: Data collection	Lesson 2: Programming letters	Lesson 2: Different loops
I can describe networked devices and	I can re-record my voice to improve my	I can explain that different colour effects	• I can explain what data can be collected	I can use a template to create a design	I can modify loops to produce outcome
how they connect	recording	make you think and feel different things	using sensors	for my program	I can choose when to use a count-
• I can explain that the internet is used to	I can inspect the soundwave view to	I can experiment with different colour	• I can use data from a sensor to answer a	I can write an algorithm to produce a	controlled and an infinite loop
provide many services	know where to trim my recording	effects	given question	given outcome	I can recognise that some programming
I can recognise that the World Wide	I can discuss what sounds can be added	• I can explain why I chose certain colour	• I can identify that data from sensors can	• I can test my algorithm in a text-based	languages enable more than one process
Web contains websites and web pages	to a podcast	effects	be recorded	language	to be run at once
Lesson 3: Sharing information	Lesson 3: Creating a podcast	Lesson 3: Changing images for different uses	Lesson 3: Logging	Lesson 3: Patters and repeats	Lesson 3: Animate your name
 I can describe where websites are stored when upleaded to the WWWW 	I can explain how sounds can be combined to make a padeast more	I can add to the composition of an image buildening	I can recognise that a data logger collects	I can identify everyday tasks that include repetition as part of a sequence, as	I can choose which action will be repeated for each object
 L cap describe how to access websites on 	combined to make a podcast more	by cioning	 data at given points L cap identify the intervals used to collect 	hrushing teeth, dance moves	 repeated for each object I can explain what the outcome of the
• I can describe now to access websites on the W/W/W/	 I can save my project so the different 	 I can identify now a photo edit can be improved 	 I can identify the intervals used to collect data 	 I can identify natterns in a sequence 	 I call explain what the outcome of the repeated action should be
 I can explain the types of media that can 	parts remain editable	 I can remove parts of an image using 	 I can talk about the data that I have 	 I can use a count-controlled loop to 	 I can evaluate the effectiveness of the
be shared on the WWW	• I can plan content for a podcast	cloning	captured	produce a given outcome	repeated sequences used in my program
Lesson 4: What is a website?	Lesson 4: Editing digital recordings	Lesson 4: Retouching images	Lesson 4: Analysing data	Lesson 4: Using loops to create shapes	Lesson 4: Modifying a game
• I can explain what media can be found	I can record content following my plan	I can experiment with tools to select and	I can view data at different levels of	I can identify the effect of changing the	I can identify which parts of a loop can
on websites	• I can review the quality of my recordings	copy part of an image	detail	number of times a task is repeated	be changed
I can recognise that I can add content to	I can improve my voice recordings	I can use a range of tools to copy	I can sort data to find information	I can predict the outcome of a program	I can explain the effect of my changes
the WWW		between images	I can explain that there are different	containing a count-controlled loop	I can re-use existing code snippets on
I can explain that internet services can		• I can explain why photos might be edited	ways to view data	• I can choose which values to change in a	new sprites
be used to create content online				loop	
			Laccon Li Data tar ancivaro	Loccon Li Drooking things down	
Lesson 5: Who owns the web?	Lesson 5: Combining audio	Lesson 5: Fake Images	Lesson 5. Data for answers	Lesson 5. Breaking things down	Lesson 5: Designing a game
Lesson 5: Who owns the web? I can explain that websites and their content are created by people	Lesson 5: Combining audio I can open my project to continue working on it	I can describe the image I want to create I can choose suitable images for my	I can propose a question that can be answered using logged data	I can identify 'chunks' of actions in the real world	I can evaluate the use of repetition in a project
Lesson 5: Who owns the web? I can explain that websites and their content are created by people L can suggest who owns the content on	Lesson 5: Combining audio I can open my project to continue working on it L can arrange multiple sounds to create	 I can describe the image I want to create I can choose suitable images for my project 	 I can propose a question that can be answered using logged data I can plan how to collect data using a 	 I can identify 'chunks' of actions in the real world I can use a procedure in a program 	 I can evaluate the use of repetition in a project I can select key parts of a given project
 Lesson 5: Who owns the web? I can explain that websites and their content are created by people I can suggest who owns the content on websites 	 Lesson 5: Combining audio I can open my project to continue working on it I can arrange multiple sounds to create the effect I want 	 I can describe the image I want to create I can choose suitable images for my project I can create a project that is a 	 I can propose a question that can be answered using logged data I can plan how to collect data using a data logger 	 I can identify 'chunks' of actions in the real world I can use a procedure in a program I can explain that a computer can 	 I can evaluate the use of repetition in a project I can select key parts of a given project to use in my own design
 Lesson 5: Who owns the web? I can explain that websites and their content are created by people I can suggest who owns the content on websites I can explain that there are rules to 	 Lesson 5: Combining audio I can open my project to continue working on it I can arrange multiple sounds to create the effect I want I can explain the difference between 	 I can describe the image I want to create I can choose suitable images for my project I can create a project that is a combination of other images 	 I can propose a question that can be answered using logged data I can plan how to collect data using a data logger I can use a data logger to collect data 	 I can identify 'chunks' of actions in the real world I can use a procedure in a program I can explain that a computer can repeatedly call a procedure 	 I can evaluate the use of repetition in a project I can select key parts of a given project to use in my own design I can develop my own design explaining
 Lesson 5: Who owns the web? I can explain that websites and their content are created by people I can suggest who owns the content on websites I can explain that there are rules to protect content 	 Lesson 5: Combining audio I can open my project to continue working on it I can arrange multiple sounds to create the effect I want I can explain the difference between saving a project and exporting an audio 	 I can describe the image I want to create I can choose suitable images for my project I can create a project that is a combination of other images 	 I can propose a question that can be answered using logged data I can plan how to collect data using a data logger I can use a data logger to collect data 	 I can identify 'chunks' of actions in the real world I can use a procedure in a program I can explain that a computer can repeatedly call a procedure 	 I can evaluate the use of repetition in a project I can select key parts of a given project to use in my own design I can develop my own design explaining what my project will do
 Lesson 5: Who owns the web? I can explain that websites and their content are created by people I can suggest who owns the content on websites I can explain that there are rules to protect content 	 Lesson 5: Combining audio I can open my project to continue working on it I can arrange multiple sounds to create the effect I want I can explain the difference between saving a project and exporting an audio file 	 I can describe the image I want to create I can choose suitable images for my project I can create a project that is a combination of other images 	 I can propose a question that can be answered using logged data I can plan how to collect data using a data logger I can use a data logger to collect data 	 I can identify 'chunks' of actions in the real world I can use a procedure in a program I can explain that a computer can repeatedly call a procedure 	 I can evaluate the use of repetition in a project I can select key parts of a given project to use in my own design I can develop my own design explaining what my project will do
 Lesson 5: Who owns the web? I can explain that websites and their content are created by people I can suggest who owns the content on websites I can explain that there are rules to protect content Lesson 6: Can't believe what I read? 	 Lesson 5: Combining audio I can open my project to continue working on it I can arrange multiple sounds to create the effect I want I can explain the difference between saving a project and exporting an audio file Lesson 6: Evaluating podcasts 	 I can describe the image I want to create I can choose suitable images for my project I can create a project that is a combination of other images 	 I can propose a question that can be answered using logged data I can plan how to collect data using a data logger I can use a data logger to collect data 	 I can identify 'chunks' of actions in the real world I can use a procedure in a program I can explain that a computer can repeatedly call a procedure 	 I can evaluate the use of repetition in a project I can select key parts of a given project to use in my own design I can develop my own design explaining what my project will do Lesson 6: Creating a game
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	Computing systems and networks	Creatin	g media	Data and information	Progra	Imming
	Digital literacy	Information	i technology	Information technology	Compute	er science
	Systems and searching	Video production	Vector graphics	Flat-file database	BBC Musical micro:bit	Selection in quizzes
ŀ	Lesson 1: Systems	Lesson 1: What is video?	Lesson 1: The drawing tools	Lesson 1: Creating a paper-based database	Lesson 1: Musical algorithms	Lesson 1: Exploring conditions
Ī	• I can explain that systems are built using	• I can explain that video is a visual media	• I can recognise that vector drawings are	I can create a database using cards	• To read and interpret a range of	• I can recall how conditions are used in
	a number of parts	format	made using shapes	• I can explain how information can be	algorithms	selection
	• I can describe that a computer system	I can identify features of videos	• I can experiment with the shape and line	recorded	To evaluate algorithms	• I can identify conditions in a program
	features inputs, processes, and outputs	I can compare features in different	tools	• I can order, sort, and group my data	• To write algorithms for a given audience	• I can modify a condition in a program
	I can explain that computer systems	videos	 I can discuss how vector drawings are 	cards		
	communicate with other devices		different from paper-based drawings			
Ī	Lesson 2: Computer systems and us	Lesson 2: Filming techniques	Lesson 2: Creating images	Lesson 2: Computer databases	Lesson 2: Programming & debugging music	Lesson 2: Selecting outcomes
ĺ	• I can identify tasks that are managed by	I can identify and find features on a	• I can identify the shapes used to make a	• I can explain what a field and a record is	To use existing knowledge to improve	I can use selection in an infinite loop to
	computer systems	digital video recording device	vector drawing	in a database	programs	check a condition
	• I can identify the human elements of a	I can experiment with different camera	• I can explain that each element added to	I can navigate a flat-file database to	To write and debug musical programs	I can identify the condition and
	computer system	angles	a vector drawing is an object	compare different views of information	• To experiment (tinker) with the micro:bit	outcomes
	 I can explain the benefits of a given 	I can make use of a microphone	 I can move, resize, and rotate objects I 	I can choose which field to sort data by	to make music	 I can create a program with different
	computer system		have duplicated	to answer a given question		outcomes using selection
	Lesson 3: Searching the web	Lesson 3: Using a storyboard	Lesson 3: Making effective drawings	Lesson 3: Using a database	Lesson 3: Musical gestures	Lesson 3: Asking questions
	• I can make use of a web search to find	I can suggest filming techniques for a	• I can use the zoom tool to help me add	I can explain that data can be grouped	To analyse and modify algorithms	I can explain that program flow can
	specific information	given purpose	detail to my drawings	using chosen values	To identify patterns in algorithms	branch according to a condition
	 I can refine my web search 	I can capture video using a range of	 I can explain how alignment grids and 	• I can group information using a database	• To write algorithms using repetition and	• I can design the flow of a program which
	 I can compare results from different 	filming techniques	resize handles can be used	I can combine grouping and sorting to	selection	contains 'if then else'
	search engines	I can review how effective my video is	 I can modify objects to create a new 	answer specific questions		I can show that a condition can direct
			image			program flow in one of two ways
	Lesson 4: Selecting search results	Lesson 4: Planning a video	Lesson 4: Layers and objects	Lesson 4: Using search tools	Lesson 4: Controlling music with inputs	Lesson 4: Planning a quiz
	 I can explain why we need tools to find 	I can outline the scenes of my video	 I can identify that each added object 	I can choose which field and value are	To identify how inputs are used in	 I can outline a given task
	things online	I can decide which filming techniques I	creates a new layer in the drawing	required to answer a given question	programs	I can use a design format to outline my
	• I can recognise the role of web crawlers	will use	I can change the order of layers in a	• I can outline how 'AND' and 'OR' can be	To write programs that use inputs and	project
	in creating an index	I can create and save video content	vector drawing	used to refine data selection	selection	I can identify the outcome of user input
	I can relate a search term to the search		• I can use layering to create an image	I can choose multiple criteria to answer a given question		in an aigorithm
)						
5	Lesson 5: How search results are ranked	Lesson 5: Importing and editing video	Lesson 5: Manipulating objects	Lesson 5: Comparing data visually	Lesson 5: Controlling music with inputs	Lesson 5: Testing a quiz
-	I can order a list by rank	 I can store, retrieve, and export my 	 I can copy part of a drawing by duralization account a bia sta 	I can select an appropriate chart to	Io continue to write programs that use	 I can implement my algorithm to create
	I can explain that a search engine follows	recording to a computer	duplicating several objects	visually compare data	Inputs and selection	the first section of my program
	rules to rank results	 I can explain now to improve a video by respecting and editing 	I can recognise when I need to group and	I can refine a chart by selecting a particular filter	To write and evaluate algorithms	I can test my program
	 I call give examples of citteria used by search engines to rank results 	 I can select the correct tools to make 	 I can reuse a group of objects to further 	 I can explain the benefits of using a 		• I can share my program with others
	scalen engines to rank results	edits to my video	develop my vector drawing	computer to create charts		
-	Lesson 6: How are searches influenced	Lesson 6: Video evaluation	Lesson 6: Creating a vector drawing	Lesson 6: Databases in real life	Lesson 6: Evaluating microphit music	Lesson 6: Evaluating a quiz
ľ	I can describe some of the ways that	I can make edits to my video and	I can create a vector drawing for a	I can ask guestions that will need more	To modify programs to meet given	I can identify ways the program could be
	search results can be influenced	improve the final outcome	specific purpose	than one field to answer	criteria	improved
	• I can recognise some of the limitations of	 I can recognise that my choices when 	 I can reflect on the skills I have used and 	• I can refine a search in a real-world	• To decompose learning from the unit	• I can identify the setup code I need in my
	search engines	making a video will impact on the quality	why I have used them	context	• To evaluate the micro:bit as a music-	program
	• I can explain how search engines make	of the final outcome	I can compare vector drawings to	• I can present my findings to a group	making device	 I can extend my program further
	money	• I can evaluate my video and share my	freehand paint drawings		_	
		opinions				
[Vo	cabulary		
	System, connection, digital, input, process,	Video, audio, recording, storyboard, script,	Vector, drawing tools, shapes, object, icons,	Database, data, information, record, field,	Microcontroller, micro:bit, components, LED,	Selection, condition, true, false, count-
	output, protocol, address, packet, chat,	soundtrack, dialogue, capture, zoom,	toolbar, object, move, resize, colour, rotate,	sort, order, group, search, value, criteria,	crocodile clips, connect, battery box,	controlled loop, outcomes, conditional
	explore, slide deck, reuse, remix,	storage, digital, tape, audio, AV (audio-visual),	aupilcate/copy, organise, zoom, select,	cnart, axis, compare, filter, graph, chart,	program, repetition, infinite loop, output	statement (the linking together of a condition
	CONADORATION	save, videographer, video techniques: 200m,	rotate, alignment grid, resize, handles,	presentation	condition true false input selection	and outcomes), algorithm, program, debug,
		pari, tit, angle, lighting, setting, fouruber,	back order conv. pasta group upgroup		condition, true, faise, input, selection,	implement design test run test setup
		colour Export computer Microsoft Movie	dunlicate reuse improvement evaluate		condition algorithm program debug	share evaluate constructive
		Maker, split, trim/clin, edit, titles, end credits	alternatives.		evaluate	
		timeline, transitions, soundtrack, content.	· · · · · · · · · · · · · · · · · · ·			
		retake/reshoot (choose agreed language).				
		special effects, title screen, end credits,				
		export, constructive feedback				
			Сотро	site task		
	Summative assessment on Teach Computing	Create a story telling video and evaluate	Create a card using vector drawings	Summative assessment on Teach Computing	Write an algorithm that uses selection to	Summative assessment on Teach Computing
					control a sequence using output devices	
				1	1	





	Computing systems and networks	Creatin	g media	Data and information	Progra	mming
	Digital literacy	Information	technology	Information technology	Compute	er science
	Communication and collaboration	Web page creation	3D modelling	Introduction to spreadsheets	Variables in games	Sensing movement
	Lesson 1: Internet addresses	Lesson 1: What makes a good website?	Lesson 1: Introduction to 3D modelling	Lesson 1: What is a spreadsheet?	Lesson 1: Introducing variables	Lesson 1: The micro:bit
	 I can recognise that data is transferred using agreed methods I can explain that internet devices have addresses I can describe how computers use addresses to access websites 	 I can explore a website I can discuss the different types of media used on websites I know that websites are written in HTML 	 I can add 3D shapes to a project I can view 3D shapes from different perspectives I can move 3D shapes relative to one another 	 I can collect data I can suggest how to structure my data I can enter data into a spreadsheet 	 I can identify examples of information that is variable I can explain that the way a variable change can be defined I can identify that variables can hold numbers or letters 	 I can apply my knowledge of programming to a new environment I can test my program on an emulator I can transfer my program to a controllable device
	Lesson 2: Data packets	Lesson 2: How would you layout a web page?	Lesson 2: Modifying 3D objects	Lesson 2: Modifying spreadsheets	Lesson 2: Variables in programming	Lesson 2: Go with the flow
	 I can identify and explain the main parts of a data packet I can explain that data is transferred over networks in packets I can explain that all data transferred over the internet is in packets 	 I can recognise the common features of a web page I can suggest media to include on my page I can draw a web page layout that suits my purpose 	 I can resize an object in three dimensions I can lift/lower 3D objects I can recolour a 3D object 	 I can explain what an item of data is I can choose an appropriate format for a cell I can apply an appropriate format to a cell 	 I can identify a program variable as a placeholder in memory for a single value I can explain that a variable has a name and a value I can recognise that the value of a variable can be changed 	 I can identify examples of conditions in the real world I can use a variable in an if, then, else statement to select the flow of a program I can determine the flow of a program using selection
	Lesson 3: Working together	Lesson 3: Copyright or CopyWRONG?	Lesson 3: Make your own name badge	Lesson 3: What's the formula?	Lesson 3: Improving a game	Lesson 3: Sensing outputs
	 I can recognise how to access shared files stored online I can send information over the internet in different ways I can explain that the internet allows different media to be shared 	 I can say why I should use copyright-free images I can find copyright-free images I can describe what is meant by the term 'fair use' 	 I can rotate objects in three dimensions I can duplicate 3D objects I can group 3D objects 	 I can explain which data types can be used in calculations I can construct a formula in a spreadsheet I can identify that changing inputs changes outputs 	 I can decide where in a program to change a variable I can make use of an event in a program to set a variable I can recognise that the value of a variable can be used by a program 	 I can use a condition to change a variable I can experiment with different physical inputs I can explain that checking a variable doesn't change its value
	Lesson 4: Shared working	Lesson 4: How does it look?	Lesson 4: Making a desk tidv	Lesson 4: Calculate and duplicate	Lesson 4: Designing a game	Lesson 4: Finding your way
ear 6	 I can identify different ways of working together online I can recognise that working together on the internet can be public or private I can explain how the internet enables effective collaboration 	 I can add content to my own web page I can preview what my web page looks like I can evaluate what my web page looks like on different devices and suggest/make edits 	 I can accurately size 3D objects I can show that placeholders can create holes in 3D objects I can combine a number of 3D objects 	 I can calculate data using different operations I can create a formula which includes a range of cells I can apply a formula to multiple cells by duplicating it 	 I can decide where in a program to change a variable I can make use of an event in a program to set a variable I can recognise that the value of a variable can be used by a program 	 I can use an operand (e.g. <>=) in an if, then statement I can explain the importance of the order of conditions in else, if statements I can modify a program to achieve a different outcome
≻	Lesson 5: How we communicate	Lesson 5: Follow the breadcrumbs	Lesson 5: Planning a 3D model	Lesson 5: Event planning	Lesson 5: Design to code	Lesson 5: Designing a step counter
	 I can explain the different ways in which people communicate I can identify that there are a variety of ways to communicate over the internet I can choose methods of communication to suit particular purposes 	 I can explain what a navigation path is I can describe why navigation paths are useful I can make multiple web pages and link them using hyperlinks 	 I can analyse a 3D model I can choose objects to use in a 3D model I can combine objects in a design 	 I can use a spreadsheet to answer questions I can explain why data should be organised I can apply a formula to calculate the data I need to answer questions 	 I can create the artwork for my project I can choose a name that identifies the role of a variable I can test the code that I have written 	 I can decide what variables to include in a project I can design the algorithm for my project I can design the program flow for my project
	Lesson 6: Communicating responsibly	Lesson 6: Think before you link!	Lesson 6: Make your own 3D model	Lesson 6: Presenting data	Lesson 6: Improving and sharing	Lesson 6: Making a step counter
	 I can compare different methods of communicating on the internet I can decide when I should and should not share information online I can explain that communication on the internet may not be private 	 I can explain the implication of linking to content owned by others I can create hyperlinks to link to other people's work I can evaluate the user experience of a website 	 I can construct a 3D model based on a design I can explain how my 3D model could be improved I can modify my 3D model to improve it 	 I can produce a chart I can use a chart to show the answer to questions I can suggest when to use a table or chart 	 I can decide where in a program to change a variable I can make use of an event in a program to set a variable I can recognise that the value of a variable can be used by a program 	 I can create a program based on my design I can test my program against my design I can use a range of approaches to find and fix bugs
	Search search engine Google Ring Vahool	Website web page browser media	2D 3D 3D object 3D space view resize	Spreadsheet data data heading data set	Variable change name value set design	Microphit MakeCode input process output
	Search, search engine, Googie, Bing, Yanoo!, Swisscows, DuckDuckGo, refine, index, crawler, bot, search engine, ranking, optimisation, links, content creator, selection, communication, internet, public, private, one- way, two-way, one-to-one, one-to-many, SMS, email, WhatsApp, blog, YouTube, Twitter, BBC Newsround	Hypertext Markup Language (HTML), logo, layout, header, media, purpose, copyright, fair use, home page, preview, evaluate, device, Google Sites, breadcrumb trail, navigation, hyperlink, subpage, hyperlink, implication, external link, embed	colour, lift, rotate, position, select, duplicate, dimensions, placeholder, hole, group, ungroup, resize, ungroup, design, modify, evaluate, improve	cells, columns and rows, data item, data set, object, spreadsheet application, format, common attribute, formula, calculation, input, output, cell reference, calculate, operation, cell, range, duplicate, sigma, propose, question, organised, graph, chart, evaluate, results, comparison, questions, software, tools	event, algorithm, code, task, algorithm, artwork, program, project, code, test, debug, improve, evaluate, share	flashing, USB, selection, condition, if then else, variable, random, input, selection, condition, variable, sensing, accelerometer, compass, direction, navigation, design, task, algorithm, step counter, plan, create, code, test, debug
	Summative assessment on Teach Computing	Design and evaluate their own website using	Compo	SITE TASK	Summative according to Teach Computing	Making and ovaluating a stop counter
	summative assessment on Teach Computing	Design and evaluate their own website using Google Sites	Plan, develop and evaluate a 3D model of a building	summative assessment on Teach Computing	summative assessment on Teach Computing	Niaking and evaluating a step counter