## **Computing Progression Map**

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Pupils learn:	Pupils learn:	Pupils learn:	Pupils learn:	Pupils learn:	Pupils learn:
Coding Unit A Beebots - Moving a floor robot	Coding Unit A Online Robots J2Code	Coding Unit A – Code.org - Course B	Coding Unit A- Multiple sequences Scratch Scene Dialogue	Coding Unit A - Selection Scratch Quiz	Coding Unit A -Variables in Games – Scratch
Coding Unit A Beebots - Moving a floor robot To follow and give simple everyday commands or instructions To explore and predict what robot commands will do To combine four direction commands to make sequences To predict the outcome of sequences To read and write simple algorithms To plan and test a simple program Coding Unit B Online Early Coding Busy Things To show that an algorithm is series of commands can be joined to achieve a given purpose To use logical reasoning to predict what the next step will do	Coding Unit A Online Robots J2Code To describe a series of instructions as a sequence To explain what an algorithm is in everyday situations To use logical reasoning to predict the outcor of a program (series of commands) To explore algorithms and use them to seque commands To design an algorithm for a program To create and debug a program that I have written Coding Unit B Sequencing Animations To explore how commands can be connected create simple sequences To explain that a sequence of commands has outcome To create a program using a given design To change a given design	Coding Unit A - Code.org - Course BTo drag and drop blocks of codeTo translate movements into a sequence algorithmTo identify patterns of repetition in an algorithmTo solve coding puzzles using repetitionTo create a program; run, test and debug itTo solve coding challengesCoding Unit B- Sequencing with Scratch AnimationTo become familiar with the basic features in Scratch and tinkerTo predict and create a sequence to build a program using blocksTo modify a given program by changing the input	Coding Unit A- Multiple sequences Scratch Scene DialogueTo explore code sequencesTo plan and use am algorithm to codeTo add stage, sound and movementTo use a sequence to plan dialogue between two spritesTo add stage and sound effects to a programTo evaluate, test and debug a programCoding Unit B- Repetition Scratch ShapesTo identify the order and write an algorithm to draw a square on the screenTo adapt a sequence of instructions to draw other 2D shapesTo use repeat loops to simplify a program	Coding Unit A - Selection Scratch Quiz To identify and role play conditional selection in everyday situations To explore selection code and use 'ask' and 'answer' variables To explain how selection directs the flow of a program To plan and write a program which uses selection To add another output to a program to chck the answers To evaluate someone else's program and give feedback Coding Unit B- Variables in Scratch Games To read sections of code and predict what the code will do To make changes to the code to	Coding Unit A -Variables in Games – ScratchTo define a 'variable' as something that is changeableTo predict and make changes to a programTo choose how to improve a game by adding variables and modifying the codeTo design a project that builds on a given exampleTo use my design and algorithms to code my gameTo test and debug my programCoding Unit B – Sensing - MicrobitsTo create a program to run on a controllable device
To run and test the code to fix errors	To create a program using my own design	To plan and design a monologue To use input and output blocks to code a program To test and debug a program	To create a program to draw different shapes using repetition loops and colours	achieve specific results To design and draw a plan for a game To use my plan and algorithm to code my game	To explain that selection can control the flow of a program To update a variable with a user input
To design an algorithm for a program To code, test and debug the program	To decide how my project can be improved		To compare different ways to code to draw shapes		To use an conditional statement to compare a variable to a value
, , , , , , , , , , , , , , , , , , , ,			To evaluate, test and debug a program	To test and debug my program as I code	To design a project that uses inputs and outputs on a controllable device
				To evaluate a program according to specific criteria and give feedback	To develop a program to use inputs and outputs on a controllable device
	Pupils learn: Coding Unit A Beebots - Moving a floor obot To follow and give simple everyday commands or instructions To explore and predict what robot commands will do To combine four direction commands to make sequences To predict the outcome of sequences To read and write simple algorithms To plan and test a simple program Coding Unit B Online Early Coding Busy Things To show that an algorithm is series of commands can be joined to achieve a given purpose To use logical reasoning to predict what he next step will do To code a sequence of instructions using online software To run and test the code to fix errors To design an algorithm for a program To code, test and debug the program	Pupils learn:       Pupils learn:         Coding Unit A Beebots - Moving a floor obot       Coding Unit A Online Robots J2Code         To describe a series of instructions as a sequence       To describe a series of instructions as a sequence         To ocombine four direction commands to make sequences       To use logical reasoning to predict the outcor of a program (series of commands)         To read and write simple algorithms       To design an algorithm for a program         To plan and test a simple program       To create and debug a program that I have written         Coding Unit B Online Early Coding Busy things       Coding Unit B Sequence of commands can be connected create simple sequences         To oxelogical reasoning to predict what he next step will do       To explore how commands can be connected create a program using a given design         To create a program using a given design       To create a program using a given design         To create a program using my own design       To create a program using my own design         To create and debug the program       To decide how my project can be improved	Pupils learn:       Pupils learn:       Pupils learn:         Coding Unit A Beebots - Moving a floor obt       Coding Unit A Online Robots J2Code       Coding Unit A - Code.org - Course B         To drag and drop blocks of code       To drag and drop blocks of code       To drag and drop blocks of code         To explore and predict what robot         To predict the outcome of sequences       To explore algorithm is and use them to sequence       To explore algorithm is and use them to sequence         To read and write simple algorithms       To dreag and algorithm for a program       To create and debug a program that I have written       To create a program; run, test and debug it       To solve coding puzzles using repetition         To solve coding Unit B Online Early Coding Busy things       Coding Unit B Sequencing Animations       Coding Unit B Sequences         To exploir how commands can be joined to achieve a ure purpose       To change a given design       To create a program using a given design         To create a program using a given design       To create a program using my own design       To decide how my project can be improved         To decide how my project can be improved       To use input and dusp a program       To use input and output blocks to code a program	uppls learn:         Pupls learn:         Pupls learn:         Coding Unit A Deebots - Moving a floor obt         Pupls learn:         Coding Unit A Online Robots JZCode         Coding Unit A Code.org - Course B         Coding Unit A - Multiple sequences Scratch Scene Dialogue           to follow and give simple everyday on explore and predict what to be or explore and predict what to be or explore and predict what to be or explore four direction commands to a combine four direction commands.         To describe a series of instructions as a sequences         To drag and drap blocks of code         To explore code sequences           to read and write simple algorithms to pelan and test a simple program         To create and debug a program that I have written         To solve coding put 24 subject explore code sequences         To add stage, sound and movement.           to explore four discribe a coding Unit B Online Early Coding Bury hings         To create and debug a program that I have written         To solve coding challenges         To evaluate, test and debug a program to explore index simple sequence of commands: on be joined to achieve a program         To drag and create a sequence to build a program using blocks         To describe familiar with the basic ro evaluate, test and debug a program using blocks         To decide how my project can be improved a program using blocks         To decide how my project can be improved a program         To decide how my project can be improved a program         To decide how my project can be improved a program         To decide how my project can be improved a program         To devalue, ptend outrupt blocks to code a program         To c	Typik kerr:Pupik kerr:Pupik kerr:Pupik kerr:Pupik kerr:Pupik kerr:coding Unit A Seebots - Moving a floor ubutCoding Unit A Online Robots J2Code To describe a series of instructions as a upper early early with toot annuable with toot and street and with an algorithm is a expense of annuable to exploan environming to program to exploan environming to program to exploan environming to program to exploan environming to program to exploan environming to program with the withenTo subject code sequence of annuable to exploan environming to program to exploan environming to program to exploan environming to program to exploan environming to program to exploan environming to program too to exploan environming to program to exploan environming to program too to ex



Jnit	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Pupils learn:	Pupils learn:	Pupils learn:	Pupils learn:	Pupils learn:	Pupils learn:
	IT - Digital Media - Multimedia and Digital Writing MUSIC and PAINTING - Busy Things	IT - Multimedia and Digital Writing – JIT	IT - Multimedia and Digital Writing- Google Docs	DL- Computing Systems and Networks-The Internet	IT Multimedia & Digital Writing- Vector Drawings (Google)	IT- Data & Information- Microsoft Excel or Google Sheets
	To switch on, log in and access online resources and work (DL)	To use the keyboard to type sentences (DL) To save and retrieve what I create (DL)	To become familiar with text and editing tools	To describe how networks physically connect to other networks	To identify that drawing tools can be used to produce different outcomes	To identify questions which can be answered using data
	To use the mouse/trackpad to move the cursor and interact with my	To use a bookmark or a link to access a	To add an image, resize and change layout in a document	To recognise how networked devices make up the internet	To create a vector drawing by combining shapes	To explain that objects can be described using data
	computer (DL)	web page and find information to answer questions (DL)	To use keyboard shortcuts to copy and paste images	To outline how websites can be shared via the World Wide Web	To use tools to achieve a desired effect	To explain that formula can be used to produce calculated data
Digital Literacy and Information Technology	To explore sounds and music using technology	To coloct tomplator for my writing	To add content to a desktop publishing publication and use basic formatting	To describe how content can be added and accessed on the World Wide Web	To recognise that vector drawings consist of layers	To apply formulas to data, including duplicating
	To use the keyboard to interact with the computer and type (DL)	To format multiplates for my writing	tools To consider how different layouts can suit different nurposes	To recognise how the content of the WWW is created by people	To group objects to make them easier to work with	To create a spreadsheet to plan an event
	To use a computer on my own to paint a picture	To romat my typing to suit the task	To edit a publication using keyboard	To evaluate the consequences of unreliable content	To evaluate my vector drawing	To choose suitable ways to present data
	To compare painting a picture on a computer and on paper	work	IT Digital Media - Create, Share, Respond J2 Animate	IT- Data Logging -NCCE	IT- Data & Information – Spreadsheets	DL - Computer Systems & Networks –
	IT - Digital Media - Multimedia and Digital	IT - Creating Media - Digital Photography	To explain that animation is a sequence of drawings or photographs	To explain that data gathered over time can be used to answer questions	To use a form to record information	To identify how to use a search engine
	Busy Things	To know what devices can be used to take photographs	To relate animated movement with a sequence of images	To use a digital device to collect data automatically	To compare paper and computer-based databases	To describe how search engines select
	To use a computer to write	To use a digital device to take a photograph	To plan an animation	To explain that a data logger collects 'data points' from sensors over time	To outline how grouping and then sorting data allows us to answer questions	results To explain how search results are
	To add and remove text on a computer	To describe what makes a good photograph	To identify the need to work	To use data collected over a long duration to find information	To explain that tools can be used to select data to answer questions	ranked To recognise why the order of results is
	To make careful choices when changing text	To decide how photographs can be improved	consistently and carefully To review and improve an animation	To identify the data needed to answer questions	To select an appropriate chart to visually compare data	important, and to whom To recognise how we communicate
	To explain why I used the tools that I chose	To use tools to change an image	To evaluate the impact of adding other media to an animation	To use collected data to answer questions	To apply my knowledge of a database to ask and answer real-world questions	using technology To evaluate different methods of
	To compare writing on a computer with writing on paper	To recognise that images can be changed	IT Branching Databases -J2E			online communication
	To use a digital camera to take a picture		To use a branching database and explain how it works	IT- Multimedia & Digital Writing - Google Slides	DL- History of Computing & Women in Computing	IT -3D Modelling – Tinkrcad
	and change it using filters	DL - Uses of Computers and Information technology	To select attributes to separate objects into groups with yes/no answers	To choose an appropriate background theme and layouts to suit my work	To begin to understand how computers evolved and changed over time	To use a computer to create and manipulate three-dimensional (3D)
	DL - Technology around us	To recognise the uses and features of information technology	To create a branching database	To insert, edit and format images within Google Slides	To understand the component parts of a computer and how they work	digital objects To compare working digitally with 2D and 2D graphics
	To identify technology	To identify information technology beyond school and in the home	To select objects by attribute and make comparisons	To create and add animations and transitions to slides	To understand the drive behind the development of computing during the war	To construct a digital 3D model of a
	To identify examples of technology in the classroom and how it helps us	To explain how information technology benefits us	To identify the object attributes	To edit the command (input) for an animation or transition in a presentation	To create a timeline to show the developments of computers overtime	To identify that physical objects can be broken down into a collection of 3D
	To identify a computer and its main parts	To know that the internet is made of computers connected around the world	To compare the information shown in a	To explore different presenting features and use presenter notes	To show awareness of how we connect with others and know about the dangers and how to minimise them	shapes To design a digital model by combining 3D objects
		To know some uses of the internet	pictogram with a branching database	To evaluate how changes can improve a presentation	To evaluate different ways of working together online	To develop and improve a digital 3D model

To create rules for using technology	To show how to use information	DL Connecting Systems & Networks &		
(To switch on and off and use keyboard	IT - Data JIT Pictograms	To explain how digital devices function	IT - Digital Media- Creating Media- Audio editing	IT- Digital Media - Video Creation & Editing (iMovie)
and mouse/trackpad) part of IT lessons	To recognise that we can count and compare objects using tally charts To recognise that objects can be	To identify inputs and outputs and design own digital device	To identify that sound can be digitally recorded	To identify digital devices that can record video and explore camera angles
IT - Data groups and exploring Busy Things	represented as pictures To create a pictogram	To explore how digital devices can be connected	To use a digital device to record sound	To plan a video project using a storyboard
Statistics	To soloct objects by attribute and	To recognise the physical components of a network	To explain that a digital recording is stored as a file	To record a video that demonstrates some of the features of an effective video
To label objects and describe objects in different ways	make comparisons	To demonstrate how information can be passed between devices	To explain that audio can be changed through editing	To select the correct tools to make edits to my video
To count objects with the same	no use the pictograms to help me make comparisons	To identify the benefits of computer networks	To show that different types of audio can be combined and played together	To use an audio voiceover, theme music or sound effects in my project
properties To compare groups of objects	To explain that we can present information using a computer		To evaluate editing choices made	To consider the impact of the choices made when making and sharing a video
To answer questions about groups of objects				
To explore using pictograms to present data				
To talk about the link between the data and the information on the screen pictogram				