

Computing Progression Map

Concept	EYFS			Y1/2	Y3/4	Y5/6
	Pre-nursery	Nursery	Reception			
Technology around us	I investigate different types of technology in the classroom	I can use the touch screen on the IWB I can use a metal detector to explore and locate items	I can locate examples of technology in the classroom	<p>I can name the main parts of a computer</p> <p>I can switch on and log into a computer</p> <p>I can use a mouse to click and drag</p> <p>I can use a mouse to create a picture & open a program</p> <p>I can save my work to a file and open it</p> <p>I can type my name on a computer</p> <p>I can delete letter</p> <p>I can use the arrow keys to move the cursor</p> <p>I can identify rules to keep us safe and healthy when we are using technology in and beyond the home</p>	<p>I can follow a process</p> <p>I can classify input and output devices</p> <p>I can design a digital device</p> <p>I can explain how I use digital devices for different activities</p> <p>I can explain how messages are passed through multiple connections</p> <p>I can demonstrate how information can be passed between devices</p> <p>I can explain the role of a switch, server, and wireless access point in a network</p> <p>I can identify how devices in a network are connected together</p> <p>I can identify networked devices around me</p> <p>I can identify the benefits of computer networks</p>	<p>I can compare results from different search engines</p> <p>I can make use of a web search to find specific information</p> <p>I can refine my web search to use a search engines</p> <p>I can explain why we need tools to find things online</p> <p>I can recognise the role of web crawlers in creating an index</p> <p>I can relate a search term to the search engine's index</p> <p>I can explain that a search engine follows rules to rank results</p> <p>I can give examples of criteria used by search engines to rank results</p> <p>I can order a list by rank</p> <p>I can describe some of the ways that search results can be influenced</p>
				<p>I can describe some uses of computers</p> <p>I can identify examples of IT</p> <p>I can identify that some IT can be used in more than one way</p> <p>can sort school IT by what it's used for</p> <p>I can find examples of information technology</p> <p>I can sort IT by where it is found</p> <p>I can demonstrate how IT devices work together</p> <p>I can recognise common types of technology</p> <p>I can list different uses of information technology</p> <p>I can say how rules can help keep me safe</p> <p>I can talk about different rules for using IT</p> <p>I can identify the choices that I make when using IT</p> <p>I can use IT for different types of activities</p>	<p>I can demonstrate how information is shared across the internet</p> <p>I can describe the internet as a network of networks</p> <p>I can discuss why a network needs protecting</p> <p>I can describe networked devices and how they connect</p> <p>I can recognise that the World Wide Web contains websites and web pages</p> <p>I can describe where websites are stored when uploaded to the WWW</p> <p>I can explain the types of media that can be shared on the WWW</p> <p>I can explain that internet services can be used to create content online</p> <p>I can know that I can add content to the WWW</p> <p>I can explain that there are rules to protect content</p> <p>I can suggest who owns the content on websites</p>	<p>I can describe how computers use addresses to access websites</p> <p>I can recognise that data is transferred using agreed methods</p> <p>I can identify and explain the main parts of a data packet</p> <p>I can explain that the internet allows different media to be shared</p> <p>I can access shared files stored online</p> <p>I can send information over the internet in different ways</p> <p>I can identify different ways of working together online</p> <p>I can choose methods of communication to suit particular purposes</p> <p>I can compare different methods of communicating on the internet</p> <p>I can decide when I should and should not share information online</p>
Creating media	I can make marks on a screen I can record my voice using a digital device	I can make marks on a screen and explain which tools I used I can use the paint tools to draw a picture I can use a device to take a digital photograph I can record my voice on a mobile phone for a purpose	<p>I can use the shape and line tools effectively</p> <p>I can choose appropriate shapes</p> <p>I can make appropriate colour choices</p> <p>I can say which tools were helpful and why I can change the colour and brush sizes</p> <p>I can make dots of colour on the page</p>	<p>I can identify and find keys on a keyboard</p> <p>I can open a word processor- I can enter text into a computer</p> <p>I can use backspace to remove text</p> <p>I can use letter, number, and space keys</p> <p>I can identify the toolbar and use bold, italic, and underline</p> <p>I can type capital letters</p> <p>I can change the font</p> <p>I can select all of the text by clicking and dragging</p> <p>I can select a word by double-clicking</p> <p>I can decide if my changes have improved my writing</p> <p>I can say what tool I used to change the text</p> <p>I can use 'undo' to remove changes</p> <p>I can make changes to text on a computer</p> <p>I can say why I prefer typing or writing</p>	<p>I can create an effective flip book—style animation</p> <p>I can create an effective stop-frame animation</p> <p>I can predict what an animation will look like</p> <p>I can create a storyboard</p> <p>I can describe an animation that is achievable on screen</p> <p>I can evaluate the quality of my animation</p> <p>I can review a sequence of frames to check my work</p> <p>I can use onion skinning to help me make small changes between frames</p> <p>I can evaluate another learner's animation</p> <p>I can explain ways to make my animation better</p> <p>I can improve my animation based on feedback</p> <p>I can add other media to my animation</p> <p>I can evaluate my final film</p> <p>I can explain why I added other media to my animation</p>	<p>I can create a database using cards</p> <p>I can order, sort, and group my data cards</p> <p>I can choose which field to sort data by to answer a given question</p> <p>I can navigate a flat-file database to compare different views of information</p> <p>I can combine grouping and sorting to answer specific questions</p> <p>I can group information using a database</p> <p>I can choose multiple criteria to answer a given question</p> <p>I can choose which field and value are required to answer a given question</p> <p>I can outline how 'and' and 'or' can be used to refine data selection</p> <p>I can refine a chart by selecting a particular filter</p> <p>I can select an appropriate chart to visually compare data</p> <p>I can ask questions that will need more than one field to answer</p> <p>I can refine a search in a real-world context</p>
			<p>I can say whether I prefer painting using a computer or using paper</p> <p>I can spot the differences between painting</p>	<p>I can say what I do and don't like about a piece of music</p> <p>I can connect images with sounds</p> <p>I can relate an idea to a piece of music</p> <p>I can use a computer to experiment with rhythm and pitch</p> <p>I can refine my musical pattern on a computer</p> <p>I can add a sequence of notes to my rhythm</p> <p>I can create a rhythm that represents an animal I've chosen</p> <p>I can create my animal's rhythm on a computer</p>	<p>I can explain why I might crop an image</p> <p>I can improve an image by rotating it</p> <p>I can use photo editing software to crop an image</p> <p>I can experiment with different colour effects</p> <p>I can add to the composition of an image by cloning</p> <p>I can identify how a photo edit can be improved</p> <p>I can remove parts of an image using cloning</p>	<p>I can discuss the different types of media used on websites</p> <p>I can draw a web page layout that suits my purpose</p> <p>I can recognise the common features of a web page</p> <p>I can suggest media to include on my page</p> <p>I can find copyright-free images</p> <p>I can say why I should use copyright-free images</p> <p>I can add content to my own web page</p> <p>I can evaluate what my web page looks like on different</p>

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			on a computer and on paper	<p>I can listen to music and describe how it makes me feel</p> <p>I can review my work I can explain how I changed my</p>	<p>I can experiment with tools to select and copy part of an image</p> <p>I can use a range of tools to copy between images</p> <p>I can choose suitable images for my project</p> <p>I can create a project that is a combination of other images</p> <p>I can combine text and my image to complete the project</p> <p>I can review images against a given criteria</p> <p>I can use feedback to guide making changes</p>	<p>devices and suggest/make edits</p> <p>I can preview what my web page looks like</p> <p>I can describe why navigation paths are useful I can make multiple web pages and link them using hyperlinks</p> <p>I can create hyperlinks to link to other people's work</p> <p>I can evaluate the user experience of a website</p>
Data & Information	<p>I can use the Relish programme to choose my lunch with an adult</p>	<p>I can independently choose my lunch on the Relish programme</p> <p>I can follow the commands on the traffic light</p>	<p>I can independently choose my lunch on the Relish programme</p> <p>I can use an electronic microscope to investigate objects</p>	<p>I can identify the label for a group of objects</p> <p>I can match objects to groups</p> <p>I can describe a property of an object</p> <p>I can find objects with similar properties</p> <p>I can group objects in more than one way</p> <p>I can choose how to group objects</p> <p>I can record how many objects are in a group</p> <p>I can compare groups of objects</p> <p>I can decide how to group objects to answer a question</p> <p>I can record and share what I have found</p>	<p>I can create two groups of objects separated by one attribute</p> <p>I can make up a yes/no question about a collection of objects</p> <p>I can arrange objects into a tree structure</p> <p>I can create a group of objects within an existing group</p> <p>I can select an attribute to separate objects into groups</p> <p>I can group objects using my own yes/no questions</p> <p>I can select objects to arrange in a branching database</p> <p>I can test my branching database to see if it works</p> <p>I can compare two branching database structures</p> <p>I can create yes/no questions using given attributes</p> <p>I can create a physical version of a branching database</p> <p>I can create questions that will enable objects to be uniquely identified</p> <p>I can independently create questions to use in a branching database</p> <p>I can create a branching database that reflects my plan</p> <p>I can suggest real-world uses for branching databases</p>	<p>I can create a database using cards</p> <p>I can order, sort, and group my data cards</p> <p>I can choose which field to sort data by to answer a given question</p> <p>I can navigate a flat-file database to compare different views of information</p> <p>I can combine grouping and sorting to answer specific questions</p> <p>I can group information using a database</p> <p>I can choose multiple criteria to answer a given question</p> <p>I can choose which field and value are required to answer a given question</p> <p>I can outline how 'AND' and 'OR' can be used to refine data selection</p> <p>I can refine a chart by selecting a particular filter</p> <p>I can select an appropriate chart to visually compare data</p> <p>I can ask questions that will need more than one field to answer</p> <p>I can refine a search in a real-world context</p>
				<p>I can compare totals in a tally chart</p> <p>I can record data in a tally chart</p> <p>I can enter data onto a computer</p> <p>I can use a computer to view data in a different format</p> <p>I can use pictograms to answer simple questions about objects</p> <p>I can use a tally chart to create a pictogram</p> <p>I can create a pictogram to arrange objects by an attribute</p> <p>I can choose a suitable attribute to compare people and collect the data I need</p> <p>I can create a pictogram and draw conclusions from it</p>	<p>I can choose a data set to answer a given question</p> <p>I can suggest questions that can be answered using a given data set</p> <p>I can use data from a sensor to answer a given question</p> <p>I can identify the intervals used to collect data</p> <p>I can sort data to find information</p> <p>I can view data at different levels of detail</p> <p>I can plan how to collect data using a data logger</p> <p>I can propose a question that can be answered using logged data</p> <p>I can use a data logger to collect data</p> <p>I can draw conclusions from the data that I have collected</p> <p>I can interpret data that has been collected using a data logger</p>	<p>I can enter data into a spreadsheet</p> <p>I can suggest how to structure my data</p> <p>I can apply an appropriate format to a cell</p> <p>I can choose an appropriate format for a cell</p> <p>I can construct a formula in a spreadsheet</p> <p>I can apply a formula to multiple cells by duplicating it</p> <p>I can calculate data using different operations</p> <p>I can create a formula which includes a range of cells</p> <p>I can apply a formula to calculate the data I need to answer questions</p> <p>I can use a spreadsheet to answer questions</p> <p>I can produce a chart</p> <p>I can suggest when to use a table or chart</p> <p>I can use a chart to show the answer to questions</p>
Programming	<p>I can press buttons on cause and effect toys to see what will happen</p> <p>I can predict what will happen when a press a button on a toy</p>	<p>I can use the controls to move the remote control car</p> <p>I can give directions</p>	<p>I can match a command to an outcome</p> <p>I can predict the outcome of a command on a device</p> <p>I can run a command on a device</p>	<p>I can compare different programming tools</p> <p>I can find which commands to move a sprite</p> <p>I can use commands to move a sprite I can run my program</p> <p>I can use a Start block in a program</p> <p>I can use more than one block by joining them together</p> <p>I can say what happens when I change a value</p> <p>I can delete a sprite</p> <p>I can show that a project can include more than one sprite</p>	<p>I can identify the objects in a Scratch project (sprites, backdrops)</p> <p>I can choose a word which describes an on-screen action for my plan</p> <p>I can create a program following a design</p> <p>I can identify that each sprite is controlled by the commands choose</p> <p>I can create a sequence of connected commands</p> <p>I can start a program in different ways</p> <p>I can combine sound commands</p> <p>I can order notes into a sequence I can build a sequence of commands</p> <p>I can decide the actions for each sprite in a program</p> <p>I can make design choices for my artwork</p>	<p>I can create a simple circuit and connect it to a microcontroller I can program a microcontroller to make an LED switch on</p> <p>I can connect more than one output component to a microcontroller</p> <p>I can design sequences that use count-controlled loops</p> <p>I can use a count-controlled loop to control outputs</p> <p>I can design a conditional loop</p> <p>I can program a microcontroller to respond to an input</p> <p>I can identify a condition and an action in my project</p> <p>I can use selection (an 'if...then...' statement) to direct the flow of a program</p> <p>I can identify a real-world example of a condition starting an action</p> <p>I can test and debug my project</p> <p>I can use selection to produce an intended outcome</p> <p>I can write an algorithm that describes what my model will do</p>
				<p>I can follow instructions given by someone else</p> <p>I can give clear instructions</p>	<p>I can modify a snippet of code to create a given outcome</p> <p>I can predict the outcome of a snippet of code</p>	<p>I can decide where in a program to change a variable</p> <p>I can make use of an event in a program to set a variable</p>

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			<p>I can show the difference in outcomes between two sequences that consist of the same commands</p> <p>I can use an algorithm to program a sequence on a floor robot</p> <p>I can use the same instructions to create different algorithms</p> <p>I can compare my prediction to the program outcome</p> <p>I can follow a sequence</p> <p>I can predict the outcome of a sequence</p> <p>explain the choices I made for my mat design</p> <p>I can identify different routes around my mat</p> <p>I can test my mat to make sure that it is usable</p> <p>I can create an algorithm to meet my goal</p> <p>I can explain what my algorithm should achieve</p> <p>I can use my algorithm to create a program</p> <p>I can plan algorithms for different parts of a task</p> <p>I can put together the different parts of my program</p> <p>I can test and debug each part of the program</p>	<p>I can choose when to use a count-controlled and an infinite loop</p> <p>I can modify loops to produce a given outcome</p> <p>I can evaluate the effectiveness of the repeated sequences used in my program</p> <p>I can explain the effect of my changes</p> <p>I can identify which parts of a loop can be changed</p> <p>I can re-use existing code snippets on new sprites</p> <p>I can develop my own design explaining what my project will do</p> <p>I can evaluate the use of repetition in a project</p> <p>I can select key parts of a given project to use in my own design</p> <p>I can build a program that follows my design</p> <p>I can evaluate the steps I followed when building my project</p> <p>I can refine the algorithm in my design</p>	<p>I can choose the artwork for my project</p> <p>I can create algorithms for my project</p> <p>I can choose a name that identifies the role of a variable</p> <p>I can create the artwork for my project</p> <p>I can test the code that I have written</p> <p>I can identify ways that my game could be improved</p> <p>I can share my game with others</p> <p>I can use variables to extend my game</p>
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