

Computing Curriculum Map

Year Group	Curriculum Content					
Year 1	Computer Skills Click and drag; switch computer on/off; launch application; log on/off; move and resize application window	Painting Change colour/brush; create shapes; save; fill; undo; redo; add text	Word Processing Skills Type with two hands; use shift, space, enter, backspace, delete, arrow keys, undo and redo; make text bold, italic and underline; save in a folder; select single words	Programming Toys Create and write instructions; direct and programme a Bee-Bot; plan and check an algorithm	Scratch Jr Open and start a project; add characters and backgrounds; use blocks; create sequenced instructions; resize, hide, show and programme characters	Using and Applying Turn on and open application; type; format text; draw and position shapes; use a brush and change shape/ colour; click, double click and drag; save and open files;
	<p style="text-align: center;">Online Safety</p> Type name and date; open web browser; recall SMART rules; recognise personal information to keep safe from strangers; know who to tell if asked for personal information; email for communication; choose Safe Search filter					
Year 2	Using the Internet Search using 'for kids'; follow a weblink; log in, post, locate and comment on blogs; identify search results with useful information	Computer Art Access an appropriate programme to recreate a piece of art; switch between program tools; alter the formatting of a tool to adjust colour and size; manipulate shapes and objects to	Presentation Skills Insert slides; add and type in text boxes; create folders; print files; add images; format text and text boxes	Preparing for Turtle Logo Walk forward a number of steps; turn accurately 90°; walk squares and rectangles; give and follow instructions	Programming Turtle Logo and Scratch Draw lines using the fd command; move blocks into the Scripts Area; snap blocks together to combine commands; turn the turtle using rt 90 and lt 90; draw	Using and Applying Find and open software; add text and images; retrieve and open files; select a backdrop and character in Scratch and make the character move; control the mouse to produce

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		recreate an art style.			squares and rectangles; create simple algorithms; use the repeat and green flag blocks to control algorithms.	different effects; add new slides to a presentation and insert and reorder slides.
	Online Safety Know what a 'digital footprint' is; know people can use their online information; identify keywords to give good search results; use a website to safely search for information; begin to identify possible dangers online; identify suitable websites for their age; know when to ask an adult for advice about accessing a website and what to do if they feel uncomfortable; give their opinion about a website; identify unkind online behaviour and know what to do if someone is unkind to them online.					
Year 3	Internet Research and Communication Understand how word order affects the results returned; bookmark or favourite a page; share a webpage with others; name and research different types of online communication; know what to do if uncomfortable when communicating	Drawing and Desktop Publishing Draw, order and group objects; insert, move, resize and arrange text boxes and images	Word Processing Use undo and redo; make text bold, italic and underline; select text and single words in different ways; change case; align text; cut, copy and paste text; format font; insert images; copy a screenshot into another application; use a secure password; use <ctrl> keyboard shortcuts.	Presentation Skills Create a simple presentation; create shapes; create a hyperlink to another slide; use slide transitions; insert audio and video files; record audio onto a slide; plan a branching story; create simple slide templates; copy and organise slides.	Programming Turtle Logo and Scratch Create and debug algorithms to draw regular polygons using the repeat command/block; use penup and pendown to draw shapes with spaces between; change and alter pen settings.	Using and Applying Skills Draw/design images and import them into other software; research and use information and images from the internet; design an effective presentation.

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	online; identify how to behave online					
	<p style="text-align: center;">Online Safety</p> <p>Recognise and define cyberbullying and know who to report it to and how it can happen; identify targeted online adverts; explain how companies use websites to promote products; create a strong password; explain what privacy settings are and how to use them; identify emails that may be unsafe to open; write an email, including an address and subject; safely send and receive emails; evaluate methods of online communication and compare to real life communication.</p>					
Year 4	<p style="text-align: center;">Animation</p> <p>Describe methods of animation; create a series of linked frames to play as a short animation; control and adjust a time slider; insert, edit and refine images to create a simple stop-motion animation; evaluate and compare animation software; make slight changes to an image using onion skinning.</p>	<p style="text-align: center;">Word Processing</p> <p>Select, edit and manipulate text in different ways; insert and image into a document; format and apply effects to an image; use formatting tools to improve layout; use spellcheck and add a spelling to the spelling dictionary; insert a simple table; add or delete rows or columns in a table; change page size; use some main keyboard shortcuts; type at an appropriate speed; create a hyperlink.</p>	<p style="text-align: center;">Scratch: Questions & Quizzes</p> <p>Write a program which accomplishes a specific goal; create a programme that includes a logical sequence; debug a program they have written; use repetition and selection; work with and adjust variables; understand and use the duplicate functions.</p>	<p style="text-align: center;">Programming Turtle Logo</p> <p>Write procedures using simple algorithms; change pen colour; write text using the label command; draw shapes using setpos or setxy; fill shapes in different colours; draw arcs of different sizes.</p>	<p style="text-align: center;">Using and Applying Skills</p> <p>Design and create a character; tell a story involving this character; combine software to present information about the character.</p>	

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	<p>Online Safety</p> <p>Identify comments/messages that may be hurtful and know how to respond to these; edit their own messages to ensure they are kind; access a trusted search engine; understand that different search terms give different results; understand that search results are ranked; know what plagiarism is; explain how to use other people’s work respectfully; identify which information to keep private online and why sharing this may be dangerous; explain how to be a good digital citizen; tell someone how to stay safe online.</p>					
<p>Year 5</p>	<p>Internet Research and Webpage Design Comment on features and layout of a webpage; create a new webpage with a chosen layout and format text; independently search for images to use in documents; insert and format images; independently create a hyperlink; share a webpage; use advanced features of Google’s web search.</p>	<p>Radio Station Record and play their own sounds; locate, download, import and play existing sounds; choose appropriate software for sound recording; plan and record a radio advert; listen to and improve their own recordings by re-recording; combine two or more tracks to make a new, original recording; plan and record audio for a podcast; evaluate features that make good quality audio content.</p>	<p>3D Modelling: SketchUp Draw 2D shapes or lines; draw simple 3D models; Manipulate 2D shapes into 3D shapes; use inference points to draw lines and shapes; use a range of SketchUp tools including shape, push, pull, orbit, pan, zoom, erase, fill, tape measure, zoom extents, the 3D warehouse and the dimensions toolbar.</p>	<p>Flowol Draw a simple flowchart; insert symbols into a flowchart and modify them; add inputs into a flowchart; create a program to control a simple sequence; create flowcharts for multiple inputs and outputs; use decisions and subroutines; program inputs and outputs</p>	<p>Scratch 3.0 Developing Games Move and edit blocks as part of an algorithm; program an algorithm as a sequence of game instructions with actions and consequences.</p>	<p>Using and Applying Skills Use search engines safely and effectively; use and combine software to draw and design room plans and other features, and to present information in different ways.</p>

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	Online Safety Identify a spam email and explain what to do with it; understand why they should cite a source and spot citations online; create strong passwords using a set or rules; know that not everything they see online is true; explain how to stay safe online; identify unsafe online behaviour; alter a photograph.				
Year 6	<p style="text-align: center;">Spreadsheets</p> Enter text and numbers into a spreadsheet; identify and refer to cells by row and column; enter formulae with the SUM function; edit data and discuss the effect on results; use the AVERAGE, MIN and MAX functions; create graphs; design a spreadsheet for a specific purpose.	<p style="text-align: center;">Film-Making</p> Plan and write a script using appropriate software; plan additional elements for film-making such as locations and props; search for relevant information using appropriate websites; evaluate whether information is reliable or not; use a digital video camera or similar to record; speak clearly into the camera when being recorded; frame an appropriate filming shot when interviewing; plan suitable questions to ask an interviewee; arrange video files to form a complete film; import video files into video editing software.	<p style="text-align: center;">Kodu Programming</p> Open Kodu and navigate the programming environment, following given instructions; add objects to a world and program them using When and Do instructions; describe the actions of a sequence of Kodu commands; plan and design features of an original virtual environment; use tools to change the size of the ground and raise or lower the landscape; create a race track with an end goal for a game; decompose and explain code; program a character to move around a track; create a	<p style="text-align: center;">Scratch: Animated Stories</p> Select appropriate characters to match a scene; structure and sequence the animation of characters with movement and speech in a story scene; use broadcast, receive, show and hide blocks correctly in code; create a sequence of story scenes with added audio; use the repeat command to create animation effect; make a character visible or invisible at the correct times.	<p style="text-align: center;">Using and Applying Skills</p> Present research on game types to inform planning; use Scratch or Kodu to create a simple game; design appropriate advertising materials to launch or promote a product.

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			path and program a character to follow it.		
	<p style="text-align: center;">Online Safety</p> <p>Say what bullying and cyberbullying are and how cyberbullying should be dealt with; identify warning signs that a website might not be secure; look in the address bar of a website to check for security; identify the lock symbol in an address bar; identify personal information and the dangers of revealing this online; explain why someone might want to have an online friendship; explain what the SMART acronym means; identify situations they should be careful in online; explain what a stereotype is and how it can be harmful; compare gender stereotypes.</p>				