

	Autumn 1	Autumn 2	Winter 1	Winter 2	Spring 1	Spring 2
Year 1	<p>1.1 E-Safety <i>Logging on safely, saving their own creative work, safe image searching, staying SMART (Safe, Meet, accept, Reliable, Tell) and keeping personal information safe.</i></p>	<p>1.2 Grouping and Sorting <i>To sort items using a range of criteria. To sort items on the computer using the 'Grouping' activities in Purple Mash.</i></p> <p>1.3 Pictograms <i>To understand that data can be represented in picture format. To contribute to a class pictogram. To use a pictogram to record the results of an experiment.</i></p>	<p>1.4 Lego Builders <i>To compare the effects of adhering strictly to instructions to completing tasks without complete instructions. To follow and create simple instructions on the computer. To consider how the order of instructions affects the result.</i></p> <p>1.5 Maze Builders <i>To understand the functionality of the direction keys. To understand how to create and debug a set of instructions (algorithm). To use the additional direction keys as part of an algorithm.</i></p>	<p>1.5 Maze Builders continued. <i>To understand how to change and extend the algorithm list. To create a longer algorithm for an activity. To set challenges for peers. To access peer challenges set by the teacher as 2Dos</i></p> <p>1.6 Animated Stories <i>To introduce e-books and the 2Create a Story tool. To add animation to a story. To add sound to a story, including voice recording and music the children have composed. To work on a more complex story, including adding backgrounds and copying and pasting pages. To share e-books on a class display board.</i></p>	<p>1.7 Coding <i>To understand what instructions are and predict what might happen when they are followed. To use code to make a computer program. To understand what object and actions are. To understand what an event is. To use an event to control an object. To begin to understand how code executes when a program is run. To understand what backgrounds and objects are. To plan and make a computer program</i></p>	<p>1.8 Spreadsheets <i>To know what a spreadsheet program looks like. To locate 2Calculate in Purple Mash. To enter data into spreadsheet cells. To use 2Calculate image tools to add clipart to cells. To use 2Calculate control tools: lock, move cell, speak and count.</i></p> <p>1.9 Technology Outside School <i>To walk around the local community and find examples of where technology is used. To record examples of technology outside school.</i></p>
Year 2	<p>2.2 Online Safety <i>To know how to refine searches using the Search tool. To have some knowledge and understanding about</i></p>	<p>2.1 Coding <i>To understand what an algorithm is. To create a computer program using an algorithm.</i></p>	<p>2.3 Spreadsheets <i>To use 2Calculate image, lock, move cell, speak and count tools to make a counting machine.</i></p>	<p>2.4 Questioning <i>To learn about data handling tools that can give more information than pictograms.</i></p>	<p>2.5 Effective Searching <i>To understand the terminology associated with searching.</i></p>	<p>2.7 Making Music <i>To make music digitally using 2Sequence. To explore, edit and combine sounds using 2Sequence.</i></p>

	<p><i>sharing more globally on the Internet.</i></p> <p><i>To understand how we should talk to others in an online situation.</i></p> <p><i>To understand that information put online leaves a digital footprint or trail.</i></p> <p><i>To identify the steps that can be taken to keep personal data and hardware secure.</i></p>	<p><i>To create a program using a given design.</i></p> <p><i>To understand the collision detection event.</i></p> <p><i>To understand that algorithms follow a sequence.</i></p> <p><i>To design an algorithm that follows a timed sequence.</i></p> <p><i>To understand that different objects have different properties.</i></p> <p><i>To understand what different events do in code.</i></p> <p><i>To understand the function of buttons in a program.</i></p> <p><i>To understand and debug simple programs.</i></p>	<p><i>To learn how to copy and paste in 2Calculate.</i></p> <p><i>To use the totalling tools.</i></p> <p><i>To use a spreadsheet for money calculations.</i></p> <p><i>To use the 2Calculate equals tool to check calculations.</i></p> <p><i>To use 2Calculate to collect data and produce a graph.</i></p> <p>2.2 Online Safety Continued</p> <p><i>To use digital technology to share work on Purple Mash to communicate and connect with others locally.</i></p> <p><i>To introduce Email as a communication tool using 2Respond simulations.</i></p>	<p><i>To use yes/no questions to separate information.</i></p> <p><i>To construct a binary tree to identify items.</i></p> <p><i>To use 2Question (a binary tree database) to answer questions.</i></p> <p><i>To use a database to answer more complex search questions.</i></p> <p><i>To use the Search tool to find information.</i></p>	<p><i>To gain a better understanding of searching on the Internet.</i></p> <p><i>To create a leaflet to help someone search for information on the Internet.</i></p> <p>2.6 Creating Pictures</p> <p><i>To learn the functions of the 2Paint a Picture tool.</i></p> <p><i>To learn about and recreate the Impressionist style of art (Monet, Degas, Renoir).</i></p> <p><i>To recreate Pointillist art and look at the work of pointillist artists such as Seurat.</i></p> <p><i>To learn about the work of Piet Mondrian and recreate the style using the lines template.</i></p> <p><i>To learn about the work of William Morris and recreate the style using the patterns template.</i></p> <p><i>To explore surrealism and eCollage.</i></p>	<p><i>To edit and refine composed music.</i></p> <p><i>To think about how music can be used to express feelings and create tunes which depict feelings.</i></p> <p><i>To upload a sound from a bank of sounds into the Sounds section.</i></p> <p><i>To record and upload environmental sounds into Purple Mash.</i></p> <p><i>To use these sounds to create tunes in 2Sequence.</i></p> <p>2.8 Presenting Ideas</p> <p><i>To explore how a story can be presented in different ways.</i></p> <p><i>To make a quiz about a story or class topic.</i></p> <p><i>To make a fact file on a non-fiction topic.</i></p> <p><i>To make a presentation to the class.</i></p>
Year 3	<p>3.2 Online safety</p> <p><i>To know what makes a safe password, how to keep passwords safe and the consequences of giving your passwords away.</i></p> <p><i>To consider if what can be read on websites is always true.</i></p>	<p>3.1 Coding</p> <p><i>To review previous coding knowledge.</i></p> <p><i>To understand how to use the repeat command.</i></p> <p><i>To use coding knowledge to create a range of programs.</i></p>	<p>3.5 Emailing</p> <p><i>To think about the different methods of communication.</i></p> <p><i>To open and respond to an email.</i></p> <p><i>To write an email to someone from an address book.</i></p>	<p>3.6 Branching databases</p> <p><i>To sort objects using just YES/NO questions.</i></p> <p><i>To complete a branching database using 2Question.</i></p> <p><i>To create a branching database of the children's choice.</i></p>	<p>3.8 Graphing</p> <p><i>To enter data into a graph and answer questions.</i></p> <p><i>To solve an investigation and present the results in graphic form.</i></p>	<p>3.9 presenting with PowerPoint</p> <p><i>To create a page in a presentation.</i></p> <p><i>To add media to a presentation</i></p> <p><i>To add animations into a presentation</i></p>

	<p>To learn about the meaning of age restrictions symbols on digital media and devices.</p> <p>3.4 Touch-typing To introduce typing terminology. To understand the correct way to sit at the keyboard. To learn how to use the home, top and bottom row keys.</p>	<p>To design and create an interactive scene.</p> <p>3.3 Spreadsheets To add and edit data in a table layout. To introduce the 'more than', 'less than' and 'equals' tools. To learn about describing cells using their addresses.</p>	<p>To add an attachment to an email.</p>	<p>3.7 Simulations To find out what a simulation is and understand the purpose of simulations. To explore a simulation, making choices and discussing their effects.</p>		<p>To add timings into a presentation. To use the skills learnt in previous weeks to design and present an effective presentation.</p>
Year 4	<p>4.2 Online Safety To understand that information put online leaves a digital footprint or trail and that this can aid identity theft. To identify the risks and benefits of installing software including apps. To understand that copying the work of others and presenting it as their own is called 'plagiarism' and to consider the consequences of plagiarism. To understand the importance of balancing game and screen time with other parts of their lives.</p>	<p>4.1 Coding To review coding vocabulary and knowledge. To begin to understand selection in computer programming. To understand how to use coordinates in computer programming. To understand the Repeat until command. To understand what a variable is in programming. To review vocabulary and concepts learnt in Year 4 Coding.</p>	<p>4.3 Spreadsheets To explore how the numbers entered into cells can be set to either currency or decimal. To explore how tools can be combined to use 2Calculate to make number games. To interpret a line graph to estimate values between data readings. To use the currency formatting tool in 2Calculate. To use the functions of allocating value to images in 2Calculate to make a resource to teach place value.</p>	<p>4.4 Writing for a different audience. To explore how font size and style can affect the impact of a text. To use a simulated scenario to produce a news report. To use a simulated scenario to write for a community campaign.</p> <p>4.5 Logo To learn the structure of the language of 2Logo. To input simple instructions in 2Logo. To use 2Logo to create letter shapes. To use and build procedures in 2Logo.</p>	<p>4.6 Animation To learn how animations are created by hand. To learn about onion skinning in animation. Introducing 'stop motion' animation.</p> <p>4.7 Effective Searching To locate information on the search results page. To use search effectively to find out information. To assess whether an information source is true and reliable.</p>	<p>4.8 Hardware Investigators To understand the different parts that make up a desktop computer. To recall the different parts that make up a computer.</p> <p>4.9 Making Music To identify and discuss the main elements of music: Pulse, Rhythm, Tempo, Pitch, Texture To understand and experiment with rhythm and tempo. To compose a piece of electronic music.</p>
Year 5 & 6	5.2 Online Safety	5.1 Coding	5.3 Spreadsheets	5.5 Game Creator	5.7 Concept Maps	5.8 Word Processing

	<p><i>To review children' responsibility to one another in their online behaviour.</i></p> <p><i>To be aware of appropriate and inappropriate text, photographs and videos and the impact of sharing these online.</i></p> <p><i>To search the Internet with a consideration for the reliability of the results of sources to check validity and understand the impact of incorrect information.</i></p> <p><i>Ensuring reliability through using different methods of communication.</i></p>	<p><i>To review existing coding knowledge.</i></p> <p><i>To understand what a simulation is.</i></p> <p><i>To know what decomposition and abstraction are in Computer Science</i></p> <p><i>To understand how to use friction in code.</i></p> <p><i>To understand what the different variable types are and how they are used differently.</i></p>	<p><i>To use formulae within a spreadsheet to convert measurements of length and distance.</i></p> <p><i>To use the count tool to answer hypotheses about common letters in use.</i></p> <p><i>To use formulae to calculate area and perimeter of shapes.</i></p> <p><i>To use a spreadsheet to help plan a school cake sale.</i></p> <p>5.4 Databases</p> <p><i>To learn how to search for information in a database.</i></p> <p><i>To contribute to a class database.</i></p> <p><i>To create a database around a chosen topic.</i></p>	<p><i>To plan, create and debug a game.</i></p> <p><i>To self and peer assess games.</i></p> <p>5.6 3D Modelling</p> <p><i>To be introduced to the 2Design and Make tool.</i></p> <p><i>To explore the effect of moving points when designing.</i></p> <p><i>To design a 3D model to fit certain criteria.</i></p> <p><i>To refine and print a model.</i></p>	<p><i>To understand the need for visual representation when generating and discussing complex ideas.</i></p> <p><i>To create a concept map.</i></p> <p><i>To understand how a concept map can be used to retell stories and information.</i></p> <p><i>To create a collaborative concept map and present this to an audience.</i></p>	<p>Children will be able to create a word processing document, altering the look of the text and navigating around the document.</p> <p>To add and edit images to a document.</p> <p>To know how to use word wrap with images and text.</p> <p>To add features to a document to enhance its look and usability.</p> <p>To use tables within Google Docs to present information.</p>
--	---	---	--	--	---	---