



St Laurence's CE Primary School  
Computing  
Long Term Plan  
Year 2



Autumn 1 <b>Online Safety and Effective Searching</b>	Autumn 2 <b>Creating Pictures</b>	Spring 1 <b>Making Music and Presenting Ideas</b>	Spring 2 <b>Questioning</b>	Summer 1 <b>Coding</b>	Summer 2 <b>Coding</b>
<p><u>Key Content &amp; Skills</u> Children will know how to refine searches using the search tool and how to share work electronically using the display boards. Children will have some knowledge and understanding about sharing more globally on the Internet. To introduce Email as a communication tool using 2Respond simulations. To understand how we talk to others when they are not there in front of us. To open and send simple online communications in the form of email. To understand the terminology associated with the Internet and searching and to gain a better understanding of searching the Internet. To create a leaflet to help someone search for</p>	<p><u>Key Content &amp; Skills</u> Introduction and Impressionism. To explore 2Paint A Picture. To look at the work of Impressionist artists and recreate them using the Impressionism template. Pointillist Art - To look at the work of pointillist artists such as Seurat. To recreate pointillist art using the Pointillism template. Piet Mondrian - To look at the work of Piet Mondrian and recreate it using the Lines template. William Morris and Pattern - To look at the work of William Morris and recreate it using the Patterns template. Surrealism and eCollage - To look at some surrealist art and create your own using the eCollage function in 2Paint A Picture</p>	<p><u>Key Content &amp; Skills</u> Introducing 2Sequence - To be introduced to making music digitally using 2Sequence. To explore, edit and combine sounds using 2Sequence.  Making Music - To add sounds to a tune to improve it. To think about how music can be used to express feelings and create tunes which depict feelings.  Soundtracks - To upload a sound from a bank of sounds into the Sounds section. To record their own sound and upload it into the Sounds section. To create their own tune using the sounds which they have added to the Sounds section.</p>	<p><u>Key Content &amp; Skills</u> Using and Creating Pictograms - To show that the information provided on pictograms is of limited use beyond answering simple questions. Asking Yes / No Questions - To use yes/no questions to separate information. Binary Trees - To construct a binary tree to separate different items. Using 2Question - a Computer Based Binary Tree Program. Use 2Question (a binary tree) to answer questions. Using 2Investigate: a Non Binary Database. To use a database to answer more complex search questions. To use the Search tool to find information.</p>	<p><u>Key Content &amp; Skills</u> Algorithms - To understand what an algorithm is. To create a computer program using an algorithm. Collision Detection - To create a program using a given design. To understand the collision detection event. Using a Timer - To understand that algorithms follow a sequence. To design an algorithm that follows a timed sequence.</p>	<p><u>Key Content &amp; Skills</u> Different Object Types- To understand that different objects have different properties. To understand what different events, do in code.  Buttons- To create a program using a given design. To understand the function of buttons in a program.  'Smelly Code' Debugging- To know what debugging means. To understand the need to test and debug a program repeatedly. To debug simple programs.</p>



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information on the Internet.					
<u>Vocabulary</u> Search bar Internet Personal Information Private Information Filter <b>Effective Search</b> Internet <b>Online Safety</b>	<u>Vocabulary</u> Palette Impressionism Style Pointillism Dilute Surrealism eCollage	<u>Vocabulary</u> Tune Compose Note Speed Beat Volume Tempo Sound Effect Repeat Bars	<u>Vocabulary</u> Pictogram <b>Data</b> <b>Information</b> Sort Avatar Question Database Record Binary Tree	<u>Vocabulary</u> Action Algorithm Background Bug Command Debug/Debugging Object Implement Modify <b>Coding</b>	<u>Vocabulary</u> Action Algorithm Background Bug Command Debug/Debugging Object Implement Modify <b>Coding</b>
<u>Assessment against the National Curriculum</u> Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	<u>Assessment against the National Curriculum</u> Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	<u>Assessment against the National Curriculum</u> Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	<u>Assessment against the National Curriculum</u> Use logical reasoning to predict the behaviour of simple programs.	<u>Assessment against the National Curriculum</u> Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.	<u>Assessment against the National Curriculum</u> Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs.