



Kingsway Long Term Plan for ICT

Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3	<p>Coding (6wks) Children will be to create a simple program, be able to identify an error in their program and be able to fix it.</p> <p>Online Safety (2wks) Chn to know what makes a safe password, how to keep passwords safe and the consequences of giving your passwords away.</p>	<p>Online Safety (1wk)</p> <p>Spreadsheets (3wk) Chn to create a table of data on a spreadsheet. Chn to then use a spreadsheet program to automatically create charts and graphs from data.</p>	<p>Touch-typing (3wks) To begin to develop touch typing skills To practise the keys typed with the left hand and right hand</p> <p>Email (4wks) Practice emailing teachers and also how to respond to SPAM safely. To learn how to open and add attachments to emails.</p>	<p>Email (2wks)</p> <p>Branching databases(4wks) To begin by sorting objects using only YES/ NO questions. Then moving on to completing a branching database. Possible links to maths,</p>	<p>Simulations (3wks) Chn to learn that a computer simulation can represent real and imaginary situations. Then to be given some examples of simulations used for fun and for work. Chn can give suggestions of advantages and problems of simulations.</p> <p>(option for consolidation of previous units)</p>	<p>Graphing (4wks) Chn to use information collected to create pie charts/ line graphs to display data collected.</p>
Year 4	<p>Coding (6wks) Children will be able to create a program and make use of</p>	<p>Online Safety (1wk) Chn to begin to understand the concept of a digital footprint trail. Also</p>	<p>Spreadsheets (3wks)</p>	<p>Logo (4wks) Chn to be able to input simple instructions on</p>	<p>Effective Searching Making sure chn are aware of reputable search engines, also of websites not</p>	<p>Hardware Investigators (2wks) Chn to begin to understand the</p>



	<p>user inputs and outputs.ie. print to screen.</p> <p>Online safety (3wks) Chn to understand how children can protect themselves from online identity theft</p>	<p>identifying risks of installing apps, computer viruses.</p> <p>Spreadsheets(3wks) Using the formula wizard in the advanced mode to add formulae and explore formatting cells</p>	<p>Writing for different audiences (5wks) To explore how font size and style can affect the impact of a text. Cross curricular links(brochures, leaflets)</p>	<p>Logo and be able to type these.</p> <p>Animation (3wks) Chn to be able to create a simple animation and begin to learn about animation frames.</p>	<p>reliable. Chn to be able to structure search queries to locate specific information. Wikipedia) List of reputable websites to be shared with teachers. (3wks)</p> <p>(option for consolidation of previous units)</p>	<p>many components of a desktop computer. Possibility to discuss what computers used to look like, when was the first one built? etc.</p>
Year 5	<p>Coding (6wks) Children will be able to create coding structures to achieve their algorithm designs.</p> <p>Online Safety (3wks) Chn to gain a understanding of the impact that sharing digital content can have. To review sources of support when using</p>	<p>Spreadsheets (6wks) Conversions of measurements. Formulae including the advanced mode. Databases (2wks)</p>	<p>Databases (4wks) (option for consolidation of previous units for 3 wks)</p>	<p>Game Creator (7wks) Chn to create the game environment. They will then finish and share the game. Chn to evaluate theirs and their peers' games</p>	<p>3D Modelling (4wks) Chn to understand designing for a purpose. Utilise the 2Design tool when creating their models.</p>	<p>Concept Maps (4wks) Chn will see the need for visual representation when generating and discussing ideas. They will begin to make connections between thoughts and ideas and begin to record these.</p>



	technology. To review children's responsibility to one another in their online behaviour.					
Year 6	<p>Coding (6wks) Children to be able to turn a more complex programming task into an algorithm by identifying the important aspects of the task.</p> <p>Online Safety (3wks) Chn to identify benefits and risks of mobile devices broadcasting the location of the user/device, e.g. apps accessing location. Identify secure sites by looking for privacy seals of approval, e.g. https, padlock</p>	<p>Spreadsheets (6wks) Use of spreadsheets in 'real life' Creating a computational model Chn to use a spreadsheet to model a real-life situation and come up with solutions that can be applied to real life</p> <p>Blogging (2wks) Build on knowledge from previous learning. Teachers to set up blogging pages for chn to access. Chn to create blogs and become content creators.</p>	<p>Blogging (2wks) Understanding Binary (4wks) Chn to explain how all data in a computer is saved in the computer memory in a binary format. To explain that binary uses only the integers 0 and 1.</p>	<p>Text Adventures (7wks) Chn to describe what a text adventure is and map out a story-based text adventure. To split their adventure-game design into appropriate sections to facilitate creating it.</p>	<p>Networks (4wks) Begin by finding out what the chn know about the internet. Difference between the internet and World Wide Web. https://www.bbc.co.uk/newsround/47523993 (possible links to Tim Berners-Lee) To consider the major changes in technology which have taken place during their lifetime, teachers' lifetime/ parents' lifetime etc.</p>	<p>Quizzing (6wks) Chn to make a picture quiz for young children. Chn have considered the audience's ability level and interests when setting the quiz. They will have shared their quiz and responded to feedback.</p>



	icon. Identify the benefits and risks of giving personal information and device access to different software					
--	--	--	--	--	--	--