St Kentigern's Computing Progression

			Computing	mputing End Points		
Year 1	Technology around us	Creating Media - Paint	Programming A – Move a robot.	Data - Grouping data	Creating media – Digital writing	Programming - Animation
	 Know about different technology in our world. Know the parts of a computer. Use a mouse and keyboard. Know rules for using technology safely. Suggested Activity Create a computer safety poster. 	 Know how to use shape and line tools. Use a computer to paint a picture. Create a picture of the nativity scene using computer tools. Suggested Activity Create a Christmas card. 	 Know what a given command will do to a Beebot. Know how to combine four direction commands to make sequences. Plan a simple programme. Find different solutions to a problem. 	Know how to label and count objects. Know how to count objects with the same properties. Suggested activity Collate class data and organise and group.	 Know how to write on a computer. Know how to add, remove and edit text. Know the different tools I can use when editing text. Suggested Write a letter/postcard (link to topic) 	 Know how to join a series of commands together. Know how changing values can have an affect. Know how to design parts of a project. Use algorithms to create a project. Suggested
Year 2	IT around us	Digital Photography	Programming – Robot Algorithms	Pictograms	Digital music	Quizzes

	 Recognise the uses of IT around us and how we can use it. Know ways in which IT is used in our school. Explain how to use IT safely. Activity Computer safety poster (Recap Y1 skills) 	 Use a digital device to take a photograph. Know how photographs can be improved. Know how to edit a photo using digital tools. Recognise that photo's can be changed. Activity 	 Describe a series of instructions as a sequence. Predict outcomes of a programme. Design an algorithm Know how to debug an algorithm. Activity 	 Know how to compare data using tally's Recognise how objects can be represented as pictograms. Create a pictogram. Know how to present information using a computer. Activity 	 Be able to identify patterns in music. Use a computer to create a musical pattern. Be able to create music for a purpose. Review and edit music. Activity Summer music? Link to holidays 	 Know that a series of commands have a start and an outcome. Know how to create a programme from a design. Create my own programme and review and edit. Activity Create a quiz about seaside holidays.
Year 3	Computer systems - Connecting computers	Creating Media – Stop frame	Sequencing Sounds	Branching Data Programming - Desktop Publishing		Programming - Events
	 Know how digital devices function. Know the difference between inputs and outputs. Know how 	 Know how a sequence of images like to animated movement. Know how to plan an animation. Analyse, edit and improve 	 Know the different outcomes a command has in scratch. Know how to review codes in a programme. 	 Know how to create yes/no answers. Be able to compare branching databases. Plan my own branching 	 Know how text and images can communicat e messages. Know how to edit text (font, style, colours) Know how to 	 Know how a sprite moves in existing projects. Create a programme to move a sprite in four directions. Know how to

	we can connect digital devices. • Know the components of a network.	an animation. • Add other media to an animation. Activity Nativity story animation?	 Know how to sequence commands in a suitable order. Know how to implement an algorithm as a code. 	database. • Create a branching database. Activity Easter link?	layout text and images for a purpose. • Create my own poster for purpose. Activity Topic link	fix bugs in a programme. Create a maze based challenge. Activity Summer fair maze?
Year 4	The Internet • Know that connected	Audio Production • Know ways in which to	Repetition in shapes • Know how to create a	Data Logging • Know how to use a digital	Creating Media – Photo Editing • Know that the	Repetition - Games • Know how to create a run
	networks make up the internet. Know how websites are shared on the WWW. Know that content on the WWW is created by people.	record sounds. Know ways in which to edit audio. Know how to combine audio to create a podcast. Evaluate my own	programme using text. • Know to use count- controlled loop. • Be able to design a programme that includes controlled loops.	device to log data. Know how to analyse logged data. Propose questions and use data logging equipment to find solutions.	composition of images can be changed. • Know how to edit colours in a digital image. • TBCCCCC • .	loops for a programme. • Know how to modify provided games. • Use programmin g to create their own games with rules and
	 Evaluate the consequenc es of unreliable content on 	recordings. Activity Christmas podcast?		 Draw conclusions from logged data. Activity 		instructions.

	the WWW. Activity Page for the school website?			Log school data? Noisy classes? Warmest?		
Year 5	Sharing Information	Vector Drawing	Video Editing	Fact Files	Physical Computing	Quizzes
	•	 Be able to add an object to a vector drawing. To delete, modify, edit, duplicate objects. To create a vector drawing. 	 Know how to use different camera angles. Use the split, trim and crop tools to edit. Plan and edit their own video. 	 Know how to view data in different ways. Know how to use different graphs and charts to present data. Create databases using real life data. 	 Create a condition-controlled loop. Know how to write and then test their own algorithms. 	 To use selection to switch program flow. Know how to plan out their own quiz. Complete, evaluate and edit their own quiz. Analyse the data.
Year 6	Internet Communications	Computer Programmes	Spreadsheets	3D Modelling	Web Pages Variables	
	 Know what should and shouldn't be shared online. Know how we use the internet to 		 Know how to calculate data using a formula. Calculate the cost of an event using their own 	 Use digital tools to modify 3D shape. Combine objects to create 3D shapes. 	 Know how to navigate a web page. Use tools to create their own web page. Know how to 	 Know and identify variables in a programme. Know how to eidt variables in

eir	an existing game. • Design their own game using a range of variables.	create hyperlinks in a webpage.	 Be able to plan, create and modify their own 3D model. 	formulas.	communicat e.	
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